

UNITED STATES AIR FORCE

# OGGPATIONA SURVEY REPORT



REPROGRAPHICS CAREER LADDER
AFSC 703X0

AFPT 90-703-444 JULY 1981



OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150

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#### **PREFACE**

This report presents the results of a recently completed Air Force Occupational Survey of the Reprographics career ladder (AFSCs 70330, 70350, 70370, and 70390). Authorization for this occupational survey is contained in AFR 35-2. Computer printouts used in producing this report are available for use by operating and training officials.

The Air Force occupational analysis program has been in existence since 1956 when initial research was undertaken by the Air Force Human Resources Laboratory (AFHRL) to develop a methodology for gathering and analyzing occupational information. In 1967, an operational occupational analysis program was established within the Air Training Command and surveys were produced annually for 12 enlisted specialties. In 1972, the program was expanded to conduct occupational surveys covering 51 career fields annually. In late 1976, the program was again expanded to include the survey of officer utilization fields, to permit special management applications projects, and to support interservice or joint service occupational analyses.

The survey instrument used in the present project was developed by Second Lieutenant Kevin F. Morefield, Inventory Development Specialist. Second Lieutenant Carlton F. Middleton analyzed the survey data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, Texas 78150.

Copies of this report are available to air staff sections, major commands and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Analysis Branch (OMY), Randolph AFB, Texas 78150.

This report has been reviewed and is approved.

PAUL T. RINGENBACH, Col, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center

#### SUMMARY OF RESULTS

- 1. Survey Coverage. Inventory booklets were administered to Reprographics incumbents in late 1980. Responses were received from 509 703X0 personnel (86 percent of the eligible population). The overall sample was representative and provided a comprehensive picture of the 703X0 population.
- 2. Career Ladder Structure. Respondents performed a number of different jobs centering around printing, duplicating, binding, photolithography, and micrographics, or a combination of these functions. Other jobs included supervisors and production control personnel. The greatest functional overlap was found in the performance of offset duplicator, bindery, and printing press tasks. Offset duplicators are the major concentration of the career ladder. The location of the incumbent seems to be a determining factor in the job performed, with some individuals assigned to bases having both offset duplicators and printing presses reporting the performance of tasks in both areas. Photolithography and micrographics were not performed to a great extent in the field. Individuals who performed these jobs tended to specialize in the area. However, it is realistic to expect that the micrographics job will be increasingly integrated into the overall Reprographics job as more incumbents are trained in micrographics and spread throughout the field.
- 3. Career Ladder Progression. Three- and 5-skill level incumbents perform a primarily technical job with the 7-skill level personnel transitioning to the totally supervisory 9-skill level job by performing a combination of technical and supervisory duties. Similar trends from a more technical to a more supervisory job were noted for TAFMS groups as well.
- 4. Analysis of CONUS versus Overseas Groups. Only minor differences were found in the reprographics job for the CONUS as compared to the overseas respondents.
- 5. Major Command Comparison. Overall, there were only minor differences noted between the major commands in terms of tasks and duties. The largest difference concerned Air Force Systems Command (AFSC) personnel, who spent the greatest amount of time of any major command performing micrographics functions and the smallest amount of time performing electrostatic master functions.
- 6. Analysis of Specialty Training. Analysis of the Specialty Training Standard (STS) in light of survey data revealed a comprehensive document adequately covering the many reprographics functions and equipment.
- 7. Analysis of AFR 39-1. The AFR 39-1 specialty descriptions were compared to occupational survey data for each of the skill levels. Most descriptions were generally accurate; however, the specialty description for DAFSC 70370 emphasized the technical aspect of their job more than the supervisory aspect. According to survey results, the emphasis should be placed slightly more on the supervisory aspect of the job, since the technical nature of the job comprised less than 40 percent of the total job time. Thus, some refinement of this document may be appropriate.

- 8. Reprographics Course Graduates. Survey respondents who reported having completed the Reprographics course at Ft. Belvior, VA., were examined closely in terms of tasks performed as well as for background and job satisfaction indices. Overall, the graduates performed diverse jobs indicating dispersion throughout all career ladder jobs. The most common functional areas reported by graduates were printing and duplicating. Job satisfaction was high but reenlistment intentions were low.
- 9. Implications. The merger of the 713X0, 713X1, and 713X2 career ladders into a single 703X0 Reprographics career ladder has resulted in a heterogeneous Reprographics career ladder with a major concentration in the area of operation and maintenance of offset duplicators. Some jobs still tend to differentiate on the basis of the previously specialized reprographics functions; however, job groups were also identified which perform a combination of some of these functions. One of the major determining factors of the job performed was found to be the base where the personnel were located. Respondents indicate that if they are located at a base having printing presses, many times they are required to perform both offset duplicator and printing press tasks. Overall job satisfaction is high among career ladder incumbents.

# OCCUPATIONAL SURVEY REPORT REPROGRAPHICS CAREER LADDER (AFSC 703X0)

## INTRODUCTION

This is a report of an occupational survey of the Reprographics career ladder (AFSC 703X0) completed by the Occupational Analysis Branch, USAF Occupational Measurement Center, in June 1981. The 703X0 career field was created in October 1979 when the Printing-Binding (713X0), Photolithography (713X1), and Duplicating (713X2) career ladders were merged together into a single ladder. Along with the combination of these separate jobs, micrographics work was also included.

Typical functions performed by Reprographics personnel include operating presses and bindery equipment, preparing line and halftone negatives and positives, working with offset duplicators, performing operator maintenance, and operating computer output microform equipment. Entry into the field is either by directed-duty assignment (DDA), cross-training, or through a category B basic technical training course (ESABD70330) at Ft. Belvoir, VA. This interservice course lasts 15 weeks and two days, with entry into the course being controlled and limited to only a portion of the incoming 703X0 personnel.

# Objectives

The current project was designed to analyze the nature of the job 703X0 personnel perform and the degree of integration of the three previous AFSCs. Topics discussed in this report include: (1) survey methodology, (2) jobs performed by career ladder incumbents, (3) comparison of job structure to career ladder documents, such as AFR 39-1 Specialty Descriptions and the Specialty Training Standard, (4) jobs and tasks performed across skill level groups, (5) comparison of the current with the previous survey, and (6) implications of this report.

#### SURVEY METHODOLOGY

# Inventory Development

Data collection for this Occupational Survey Report was accomplished using USAF Job Inventory AFPT 90-703-444. Development of this inventory began with a thorough review of the previous 1974 job inventory AFPT 90-711-713-158. Pertinent career ladder publications and directives were then reviewed for additional input. From this investigation, a new tentative task list was developed. The tentative inventory was then taken into the field for validation by subject matter specialists working in operational units. From this review process, a final inventory was developed consisting of 484 tasks grouped under 14 duty headings. An extensive background section with questions regarding work location, functional area of work, equipment worked with, and job satisfaction was combined with the task inventory.

## Survey Administration

During the period from September 1980 to January 1981, local consolidated base personnel offices (CBPOs) administered job inventories to all DAFSC 70330, 70350, 70370, and 70390 personnel at operational units both in the Continental United States (CONUS) and overseas. Personnel were selected from Uniform Airman Record (UAR) data tapes generated by the Air Force Manpower and Personnel Center (AFMPC) and maintained by the Air Force Human Resources Laboratory (AFHRL).

The 703X0 job inventory consisted of two sections: (1) a background section which included questions concerning areas such as equipment and job satisfaction, and (2) a task section with a comprehensive listing of the tasks performed by career ladder personnel. Incumbents first checked the tasks they performed and then rated each task on a nine-point scale showing time spent on that task as compared to all other tasks checked. The rating scale ranged from one (very small amount of time spent) to nine (very large amount of time spent), with a rating of five representing an average amount of time spent performing a task.

To determine the relative amount of time an incumbent spends on each task, all of the incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job. The ratings are then summed and each task rating is then divided by the total number of task responses and the quotient is multiplied by 100. This procedure provides a basis for comparing tasks not only in terms of percent members performing, but also in terms of average percent time spent.

# Data Processing and Analysis

Once job inventories are returned from the field, they are prepared so that task responses and background information can be optically scanned. Other biographical information (such as name, base, AUTOVON extension) are keypunched onto disks and entered directly into the computer. Once both sets of data are entered into the computer, the task, background, and biographical information are merged to form a complete case record for each respondent. Computer generated programs using Comprehensive Occupational Data Analysis Programs (CODAP) techniques are then applied to the data.

CODAP produces job descriptions for respondents based on their responses to specific inventory tasks. Computer generated job descriptions are available for DAFSC, TAFMS, and MAJCOM groups, and include such information as percent members performing each task, the average percent time spent performing each task, the percent members utilizing various pieces of equipment, and the cumulative average percent time spent by all members for each task in the inventory.

A key aspect of the USAF Occupational Analysis Program is to examine the structure of career ladders in terms of what people are actually doing in the field, rather than how official career ladder documents say they are organized. This is accomplished by performing a cluster analysis on the task responses of the 703X0 respondents. Those incumbents who perform similar tasks and who spend similar amounts of time on those tasks will normally group together.

# Survey Sample

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One hundred percent of the 703X0 population were solicited to participate in this survey. This insures a representative sample across all segments of the career ladder. Table 1 reflects the major command distribution of personnel assigned to the 703X0 career field as of October 1980. Table 2 reflects the percentage distribution by paygrade. The distribution of the survey sample in terms of TAFMS is displayed in Table 3. Overall, useable returned inventories were received from 509 of the 646 total assigned or 79 percent of the total population.

## Task Factor Administration

In addition to completing a job inventory bookiet, senior 70370 personnel were also asked to complete a second booklet for either task difficulty or training emphasis. The task difficulty and training emphasis booklets were processed separately from the job inventories. The task difficulty ratings were then used in a number of different analyses discussed in more detail within the report.

Task Difficulty. Each senior NCO completing a task difficulty booklet was asked to rate all of the tasks on a nine-point scale from extremely low to extremely high difficulty, with difficulty defined as the length of time it takes an average incumbent to learn to do the task. Ratings were then adjusted so that tasks of average difficulty reflect a rating of 5.00.

Task difficulty data were independently collected from 36 experienced 7-skill level personnel assigned to a number of different major commands. The interrater reliability (as assessed through components of variance of standard group means) of .93 for these 703X0 raters reflected high agreement and was considered useable by normal reliability criterion. The resulting data were a rank ordering of tasks indicating a relative degree of difficulty for each task in the inventory.

Job Difficulty Index (JDI). After computing a task difficulty value for each task item, it was then possible to compute a Job Difficulty Index (JDI) for the groups identified in the job structure analysis. This index provided a relative measure of which jobs, when compared to other jobs identified, were more or less difficult. An equation using the number of tasks performed and the average difficulty per unit time spent (ADPUTS) as variables was the basis for the JDI. The index ranges from one for very easy jobs to 25 for very difficult jobs. The indices were adjusted so that the average job difficulty index was 13.00. Thus, the more time a group spends on difficult tasks and the more tasks they perform, the higher their job difficulty index.

Training Emphasis. Individuals completing training emphasis booklets were asked to rate all of the tasks on a ten-point scale from no training required to extremely heavy training required. Training emphasis yields a rating of tasks indicating where the emphasis should be placed on structured training for first-term personnel. Structured training was defined as training provided at resident technical schools, Field Training Detachments (FTD), Mobile Training Teams (MTT), formal OJT, or by any other organized training method.

Training emphasis data were independently collected from 42 experienced 7- or 9-skill level personnel stationed worldwide (see Table 5). The interrater reliability (as assessed through components of variance of standard group means) for these raters was .94, indicating a good agreement among raters as to which tasks required some form of structured training and which did not. In this specialty, tasks rated highest in training emphasis show ratings of 4.74 or above (one standard deviation above the mean); the average training emphasis rating was 3.02; and those tasks with ratings less than 1.30 were considered as requiring very little emphasis in training.

When used in conjunction with other factors, such as percent members performing, the task difficulty and training emphasis ratings provide insight into training. The information these ratings provide can help improve both training and career ladder management.

TABLE 1
COMMAND REPRESENTATION OF SURVEY SAMPLE

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
SAC	25	27
TAC	15	15
USAFE	1.3	12
ATC	12	13
MAC	11	1.3
PACAF	5	5
AFSC	4	4
OTHER	15	11
TOTAL	100	100
TOTAL ASSIGNED::	646	
TOTAL ELIGIBLE FOR SURVEY**:	589	
TOTAL USEABLE RETURNS:	509	
RETURN RATE:	86%	

<sup>\*</sup> AUTHORIZED STRENGTH AS OF OCTOBER 1980

TABLE 2
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

PAYGRADE		PERCENT OF ASSIGNED	PERCENT OF SAMPLE
AMN		22	18
E-4		25	24
E-5		25	29
E-6		17	19
E-7		9	8
E-8		2	2
E-9		_0	0
	TOTAL	100	100

EXCLUDES THOSE IN PCS STATUS, STUDENTS, HOSPITALIZED PERSONNEL, AND PERSONNEL WITH LESS THAN SIX WEEKS ON THE JOB

TABLE 3
TAFMS DISTRIBUTION OF SURVEY SAMPLE

			MONTH	S TAFMS	,	
	1-48	49-96	97-144	145-192	193-240	241+
NUMBER IN SAMPLE PERCENT OF SAMPLE	169 33%	87 17%	88 17%	65 13%	67 13%	33 7 <b>%</b>

TABLE 4

COMMAND REPRESENTATION OF TASK DIFFICULTY RATERS

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
SAC	25	22
TAC	15	8
USAFE	13	11
ATC	12	14
MAC	11	11
PACAF	5	6
AFSC	4	3
OTHER	15	_25
	100	100

TABLE 5

COMMAND REPRESENTATION OF TRAINING EMPHASIS RATERS

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
SAC	25	29
TAC	15	7
USAFE	13	12
ATC	12	17
MAC	11	7
PACAF	5	5
AFSC	4	5
OTHER	15	18
	100	100

#### CAREAR LAST EM STRUSTURE

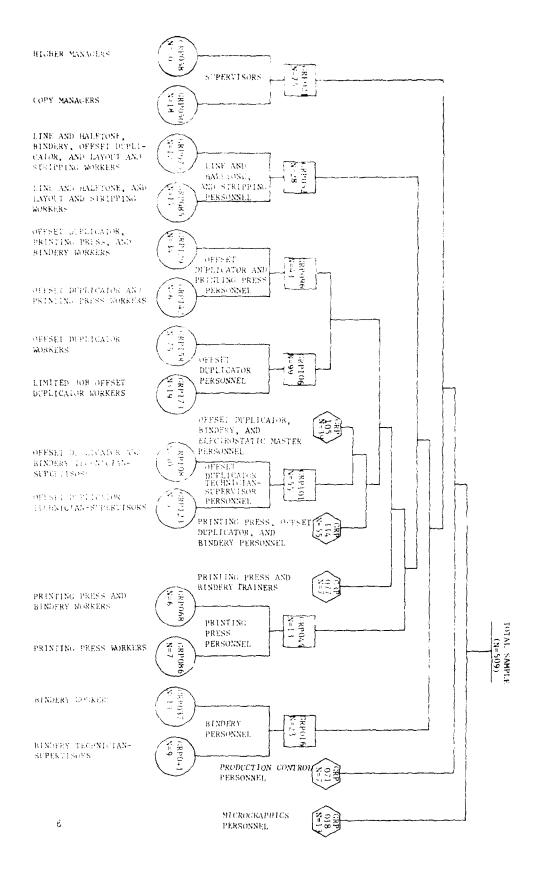
One of the most important aspects of the USAI occupations. Analysis Program is the career ladder structure analysis. This analysis examines the diversity of the jobs being performed by career ladder incumbers on the basis of the similarity of tasks performed and the percent time spent on tasks, independent of classification, grade, rank, or other background information. In this case, the career ladder structure analysis will also provide an indication of how the previous 713X0, 713X1, and 713X2 AFSCs have merged to form the present 703X0 Reprographics career ladder.

The Comprehensive Occupational Data Analysis Program (CODAP) provides a hierarchical grouping in which each individual job description in the sample is compared to every other job description in terms of tasks performed and the relative amount of time spent on each task in the job inventory. The automated system locates the two job descriptions with the most similar tasks and percent time ratings and combines them to form a composite job description. Then, in successive stages, new members are added to initial groups, or new groups are formed based on their task and time rating similarities. This procedure continues until all members of the sample have been included and combined into a single composite group. The end-product of this procedure is a computer printout displaying each group as it relates to all other groups. This display is then analyzed using a variety of supporting computer products. This analysis serves to identify: (1) the number and characteristics of the different jobs which exist within the career ladder, (2) the tasks which tend to be performed together by the same respondents, and (3) the breadth of the jobs which exist within the career ladder.

The basic identifying group used in the hierarchical job structuring process is the job type. A job type is a group of individuals who perform many of the same tasks and spend similar amounts of time performing them. When there is a substantial degree of similarity between different job types, they are grouped together and labeled as clusters. In many career fields, there are specialized job types that are too dissimilar to be grouped into any cluster. These unique groups are labeled independent job types.

Based on task similarity, the division of actual jobs performed in the 703XO career ladder is illustrated in Figure 1. The seven clusters and five independent job types are listed below. (The GRP number shown beside each title is a reference to computer printed information included for use by classification and training officials.)

- I. SUPERVISORS (GRP021, N=75)
  - a. Higher Managers (GRP058, N=50)
  - b. Copy Managers (GRP050, N=18)
- II. LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL (GRP052, N=28)
  - a. Line and Halftone, Bindery, Offset Duplicator, and Layout and Stripping Workers (GRP075, N=12)
  - b. Line and Halftone, and Layout and Stripping Workers (GRP085, N=14)



- III. OFFSET DUPLICATOR (OD) AND PRINTING PRESS (PP) PERSONNEL (GRP096, N=43)
  - a. Offset Duplicator, Printing Press, and Bindery Workers (GRP129, N=34)
  - b. Offset Duplicator and Printing Press Workers (GRP142, N=6)
- IV. OFFSET DUPLICATOR PERSONNEL (GRP106, N=99)
  - a. Offset Duplicator Workers (GRP158, N=75)
  - b. Limited Job Offset Duplicator Workers (GRP173, N=19)
- V. OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER PERSONNEL (GRP105, N=39)
- VI. OFFSET DUPLICATOR TECHNICIAN-SUPERVISOR PERSONNEL (GRP101, N=55)
  - a. Offset Duplicator and Bindery Technician-Supervisors (GRP108, N=50)
  - b. Offset Duplicator Technician-Supervisors (GRP123, N=5)
- VII. PRINTING PRESS, OFFSET DUPLICATOR, AND BINDERY PERSONNEL (GRP114, N=55)
- VIII. PRINTING PRESS AND BINDERY TRAINERS (GRP077, N=7)
  - IX. PRINTING PRESS PERSONNEL (GRP044, N=13)
    - a. Printing Press and Bindery Workers (GRP068, N=6)
    - b. Printing Press Workers (GRP086, N=7)
  - X. BINDERY PERSONNEL (GRP016, N=23)
    - a. Bindery Workers (GRP037, N=13)
    - b. Bindery Technician-Supervisors (GRP041, N=9)
  - XI. PRODUCTION CONTROL PERSONNEL (GRP071, N=7)
- XII. MICROGRAPHICS PERSONNEL (GRP018, N=13)

#### Overview

Analysis of the 703X0 career ladder structure revealed that while some specialized groups did emerge, some groups also performed a number of the major Reprographics functions to varying degrees. For example, the Offset Duplicator and Printing Press Personnel cluster and the Printing Press, Offset Duplicator, and Bindery Personnel independent job type reflect how the Reprographics functions have been fused in certain groups. On the other hand, the Offset Duplicator Personnel, Printing Press Personnel, and Bindery Personnel clusters, along with the Line and Halftone, and Layout and Stripping Personnel cluster, reflect continuing areas of specialization in the career ladder.

The clusters and independent job types described comprise 90 percent of the total sample (457 members out of a 509-member sample). The remaining ten percent of the sample was comprised of individuals who reported performing a job too dissimilar to be grouped with any of the identified groups. These incumbents were scattered across the cluster-merger diagram. Computer calculations of job similarity indicated that, on the basis of the tasks that these personnel reported performing, they could not be included in any of the already identified groups nor could they be grouped together as a separate group of their own. No specific reasons could be determined as to why these individuals performed such divergent tasks.

# Job Group Descriptions

Each of the seven clusters and five independent job types are discussed briefly below. Representative duties and tasks performed and equipment utilized by members in each individual group are displayed in Appendix A. The amount of time spent in duty areas is provided for comparative purposes in Table 6 for clusters and Table 7 for independent job types. General background data is available in Table 8 for clusters and Table 9 for independent job types. Tables 10 and 11 have job satisfaction and related data for clusters and independent job types. Table 12 displays the percentage of members of each group who held previous 713X0 Printing-Binding, 713X1 Photolithography, and 713X2 Duplicating AFSCs. The percentage of group members reporting work in certain major functional areas is displayed in Table 13.

Job type descriptions and representative tasks for job types within clusters are discussed in Appendix B.

I. <u>SUPERVISORS</u> (<u>GRP021</u>). This cluster of 75 respondents reported higher supervisory and managerial duties as their main job concern. As Table 6 displays, 81 percent of the job time of these incumbents is spent in supervisory areas, with only seven percent of their job time spent in technical areas. Administrative responsibilities are also a substantial part of this job, with 12 percent of their job time spent in this area. These respondents reported performing an average of 78 tasks. Some of the typical tasks included:

determine work priorities establish policies and operating procedures review printing requests determine most economical methods of reproduction develop work methods or procedures prepare APRs establish performance standards for subordinates

Respondents in this cluster had the most time in service of any group, with average total active federal military service (TAFMS) of 193 months (see Table 8). Seventy-two percent of this group reported supervising other personnel, with 67 percent of the group having a 7-skill level. Forty percent of the group indicated working at a group level of organization in their present job. Two major work titles, that of Copier Manager and NCOIC, Duplicating Center, were reported by this group. Another point of interest

is the fact that 43 percent of the members reported a previous 713X0 Printing-Binding AFSC. The only equipment used to a substantial degree by these incumbents were electrostatic copiers and platemakers. Overall, then, the Supervisors cluster is one of the most senior groups in the career ladder structure, with job emphasis concentrated in the areas of higher management.

As Table 10 reveals, job satisfaction data for this group were high. Reenlistment intentions were not as high, with 68 percent reporting such intentions; however, this is understandable considering that 21 percent of these incumbents intend to retire.

II. LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL (GRP052). The 28 respondents in this cluster performed a job centering around the reproduction of images. Sixty-eight percent of these personnel reported photolithography as their main functional area of work. Many of the major tasks performed by these incumbents are related to cameras, negatives/positives, copyboards, lensboards, and related equipment. Thirty-nine percent of their job time is spent preparing line or halftone negatives and positives, while an additional 19 percent of their job time focuses on layout and stripping functions (see Table 6). On the average, these incumbents performed 103 tasks. Some of the typical tasks are:

set camera exposure times
adjust camera lights
adjust copyboards
adjust lensboard
flash film for shadow dots
assemble flats
inspect negatives
position and tape negatives on layout sheets

Thirty-six percent of these respondents reported a previous 713X0 Printing-Binding AFSC and 32 percent reported a 713X1 Photolithography AFSC. Thirty-nine percent of this group were from the Strategic Air Command (SAC) and another 25 percent were from the Tactical Air Command (TAC). Squadron and plant levels of organization were each reported by 29 percent of this cluster. Camera operator, platemaker, and stripper were the main work titles indicated by these individuals. Extensive use of equipment was also reported, (see Appendix A). In general, this cluster of respondents reported a mostly technical job dealing with line and halftone, and layout and stripping functions. Seventy-one percent of these respondents indicated that they rotate among the various organizational functions.

Job satisfaction data revealed a fairly satisfied group with 68 percent of the members describing their job as interesting. High percentages of these members also felt their talents and training were well utilized. However, only 57 percent of these incumbents report intentions to reenlist with 36 percent planning not to reenlist.

III. OFFSET DUPLICATOR AND PRINTING PRESS PERSONNEL (GRP096). Operating offset duplicators (OD) and printing presses (PP) best describes the job of the 43 individuals making up this cluster. Operating and maintaining offset duplicators absorbs 36 percent of their time, while performing printing press functions takes an additional 33 percent of their job time. Sixty-one percent of these incumbents report "printing" as the main

functional area of their job and 37 percent report "duplicating" as the main functional area (see Table 13). Individuals in this cluster performed an average of 80 tasks. Some of the common tasks performed include:

mount OD masters on master cylinders adjust OD ink flow mix OD fountain solutions moisten duplicating dampening rollers clean PP impression cylinders adjust PP vacuum or airflow clean PP exteriors

First enlistment personnel accounted for 51 percent of this cluster and 19 percent of the group reported graduating from the Reprographics course at Ft. Belvoir. This is the largest concentration of course graduates of any job group. Thirty-five percent of the group reported operating at a group level of organization. Some of the common work titles of personnel in this cluster were duplicator operator, platemaker, and press operator. Some of the common equipment used includes binding machines, electric staplers, electrostatic copier/platemakers, and single-head drills (see Appendix A). Fifty-six percent of the group reported rotating among the various organizational functions.

As depicted in Table 10, job satisfaction indices for this group were about average. Saxivative percent of the respondents found their job interesting, higher percentages felt their talents and training were well utilized, but only 5% percent planned to reenlist, with 40 percent intending not to reenlist. Therefull then, the group finds the job fairly satisfying; however, many members do not want to continue in the Air Force.

IV. OFFSET DUPLICATOR PERSONNEL (GRP106). The 99 members of this group, comprising 19 percent of the total sample, formed the largest of any of the job groups. Operating and maintaining offset duplicators is the major emphasis of this group, with 65 percent of their job time spent in this area. Fifty-nine percent of the group also reported duplicating as their major functional area. This group performed an average of only 50 tasks. Some of these common tasks were:

adjust OD luk flow adjust image on ODs set OD counters replenish OD ink fountains run misters through master converters mount OD masters on master cylinders

First enlistment personnel accounted for 60 percent of the Offset Duplicator Personnel cluster. As could be expected, average time in service (TAFMS) for the group was also low at 60 months, with the average time in the career field being even lower at 42 months. Twenty-seven percent of the respondents in this group were female and 23 percent of the cluster were located overseas. Some of the work titles commonly used by these incumbents were duplicator operator and press operator. Equipment used in the job performed by Offset Duplicator Personnel include electrostatic copiers/platemakers and paper cutters. Forty-one percent of the individuals in this group report working at a group level of organization.

Job satisfaction was relatively low for this group, with only 55 percent of the members finding their job interesting. A greater number of these incumbents felt their talents and training were well utilized, but only 51 percent plan to reenlist, with 45 percent planning to separate. Overall, the Offset Duplicator Personnel were one of the least satisfied groups in the career ladder structure.

V. OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER PERSONNEL (GRP105). The 39 members of this independent job type operate offset duplicators, perform bindery functions, and perform electrostatic master (EM) functions. Thirty-three percent of their job time is spent on the duty of operating and maintaining offset duplicators. Table 7 displays the time spent by these individuals on the other duties. Forty-four percent of the cluster members reported duplicating as their main functional area of work, while an additional 18 percent listed binding as their main functional area. These respondents performed an average of 93 tasks. Representative tasks include:

run masters through master converters mount OD masters on master cylinders mix OD fountain solutions operate collators collate paper by hand adjust EMI exposure time adjust position of images on EMs

Seventy-nine percent of this group reported a 5-skill level DAFSC and 28 percent of the group listed an assignment overseas. The group level of organization was most often reported by these individuals. Bindery worker, duplicator operator, platemaker and press operator were the main work titles of these incumbents. Forty-four percent of this group listed 713X0 Printing-Binding and 44 percent listed 713X2 Duplicating as previous AFSCs. Some of the common equipment used by these members includes binding machines, manual paper cutters, saddle stitchers, and single-head drills. Sixty-nine percent of these individuals indicated rotating among the various organizational functions.

Job satisfaction was not impressive for this group, with only 56 percent of the incumbents finding their job interesting. Paradoxically, however, a high percentage (82 percent) of the members report plans to reenlist. Perceived utilization of training and talents are both also higher than job interest, but lower than reenlistment intentions (see Table 10).

VI. OFFSET DUPLICATOR TECHNICIAN-SUPERVISOR PERSONNEL (GRP101). The 55 respondents in this group operate and maintain offset duplicators and perform first-line supervisory duties. Fifty percent of their job time was reported in supervisory areas, with an additional 17 percent spent on operating and maintaining offset duplicators. Fifty-five percent of these respondents also reported duplicating as their major functional area and 85 percent reported that they supervise other personnel. This group performed an average of 143 tasks. Representative tasks include:

determine work priorities determine most economical methods of reproduction review printing requests maintain logs of jobs processed adjust EMI exposure time adjust OD ink flow adjust image on ODs

Forty-six percent of the group were located overseas, and members had an average grade of E-6. These personnel are the second most senior of all the clusters and independent job types, with an average time in service of 175 months. Forty-two percent of this group reported working at a group level of organization and 27 percent reported a base level of organization. Common work titles for these incumbents were copier manager, duplicator operator, NCOIC duplicating center, reproduction manager, and supply manager. These individuals also had one of the most difficult jobs performed with a job difficulty index of 18.8. These respondents indicated much mobility in their job, with 78 percent reporting that they rotate among organizational functions. As an additional point of interest, 51 percent of these respondents also held a previous 713X2 duplicating AFSC.

Job satisfaction indices were high for this group, with 78 percent describing their job as interesting, 85 percent feeling their talents are well utilized, and 89 percent indicating good utilization of their training. Only 60 percent indicated intentions to reenlist; however, this can be explained due to the 27 percent who plan to retire.

VII. PRINTING PRESS, OFFSET DUPLICATOR, AND BINDERY PERSONNEL (GRP114). Comprised of 55 members, this independent job type concentrated on the performance of printing press functions and the operation and maintenance of offset duplicators, as well as the performance of bindery functions (see Table 7). As could be expected, printing, duplicating, and binding were the major functional areas for this group. Respondents in this group reported performing an average of 166 tasks. Representative tasks performed by these incumbents include:

staple paper adjust image on ODs clean PP impression cylinders mount PP vacuum or air flow set PP counters set OD counters

With a Job Difficulty Index (JDI) of 18.6, these individuals reported one of the harder jobs in the career ladder structure. Fifty-eight percent of this group's members had a previous AFSC of 713X0 Printing-Binding or 713X2 Duplicating. The group level of organization was most widely identified by these incumbents, with 35 percent of the group members also being in SAC. All members of this group were male, 67 percent of whom indicated that they rotated among the various organizational functions. Bindery worker, camera operator, duplicator operator, platemaker, and press operator were the main work titles of these respondents. Equipment used by these individuals include binding machines, electric staplers, platemaking cameras, and saddle stitchers.

VIII. PRINTING PRESS AND EINDERY TRAINERS (GRP077). The seven individuals in this group account for only one percent of the total sample. Training and performing bindery and printing press functions is the main job of these personnel. Table 7 provides a listing of the time spent by these incumbents in the different duty areas. These individuals reported the broadest job in the career ladder, with an average number of tasks performed of 329. These incumbents formed a very homogeneous group, with a large core of tasks performed by a high percentage of group members. Some of these common tasks include:

supervise Reprographic Technicians write job proficiency guides maintain study reference files establish unit training standards pack printed materials manually remove or replace OD multisheet detectors adjust PP ink rollers

Table A8 provides a further listing of tasks along with a listing of representative duties.

Thirty-one percent of this group are female. Fifty-seven percent of the group are in SAC, with an additional 29 percent in USAFE. Eighty-six percent reported supervising others. The average time in service for the group was the third highest, with an average TAFMS of 135 months. No Reprographics course graduates were respondents in this group. This independent job type had the most rotation among organizational functions of any group, with 86 percent of the incumbents reporting that they do rotate. The squadron was the most common level of organization reported by these members. Common work titles were bindery worker, camera operator, copier manager, duplicator operator, NCOIC duplicating center, platemaker, press operator, and supply manager. Common equipment used on the job includes collating cabinets, electrostatic copiers/platemakers, and punching machines. These individuals have the hardest job reported in the career field with a JDI of 21.0.

Only 43 percent of the incumbents in this group found their job interesting, but most felt their talents were well utilized, and 57 percent planned to reenlist.

IX. PRINTING PRESS PERSONNEL (GRP044). This cluster consists of 13 members who almost exclusively perform printing press functions. Sixty percent of their job time is spent in this area. An additional 16 percent of their job time is also spent performing bindery functions. Eighty-four percent of this group also listed "printing" as the major functional area of their work. This cluster had an average number of tasks performed of 67. Common tasks include:

clean PP exteriors
adjust PP vacuum or airflow
load PP feeder systems
adjust PP pile height indicators
adjust PP impression cylinder pressure
adjust PP water rollers

Sixty-two percent of the members of this cluster were in their first enlistment and 31 percent of the cluster were females. The average time in service for the group was 73 months. However, 85 percent of the sample reported a 5-skill level. Fifteen percent of these individuals report having completed the Reprographics course at Ft. Belvoir. No members of this cluster were in PACAF or AFSC; however, 31 percent were in TAC. Individuals indicated working mainly at the major command, base, and group levels of organization. The major work title described by these individuals was that of press operator. Common equipment used by members include electric staplers, manual paper cutters, and electrostatic copiers/platemakers. Only 46 percent of this cluster's members reported rotation among organizational functions.

Printing press personnel reported a fairly interesting job, with only 31 percent finding it not so. Perceived utilization of talents was slightly higher at 77 percent and perceived utilization of training was the same at 69 percent. However, only 39 percent of the members of this group plan to reentist, with another 39 percent planning not to reenlist and 23 percent planning to retire.

X. BINDERY PERSONNEL (GRP016). Accounting for five percent of the total sample, the 23 members of this group concentrated on the performance of bindery functions. Seventy-six percent of their job time was spent in this area, and 75 percent of the individuals reported binding as their main functional area of work. These individuals reported a very specialized job in the binding area, averaging the performance of only 30 tasks. Representative tasks include:

operate drills operate cutters inspect sequencing of pages operate stitchers collate paper by hand operate collators

Seventeen percent of the respondents in this cluster were graduates of the Reprographics course at Ft. Belvoir, and 26 percent of the cluster members were female. In addition, 35 percent of the incumbents indicated a previous AFSC of /13X0 Printing-Binding. Twenty-six percent of the members were assigned overseas. SAC and ATC had the highest percentages of this cluster at 30 and 26 respectively. The group and base levels of organization had the highest percentages of these personnel. The main work title of the group was that of bindery worker and common equipment used involved those items which were common to bindery functions.

XI. PRODUCTION CONTROL PERSONNEL (GRP071). This group, comprised of seven members, schedules work and controls production in general. These personnel do not perform actual reprographics functions. These individuals performed an average of only nine tasks, most of which were administrative in nature. Overall, on the basis of tasks performed, this is a very heterogeneous group with a very small core of common tasks. Some of the common tasks include:

review printing requests determine work priorities maintain logs of jobs processed collect items to be duplicated or printed

Seventy-one percent of this group held a previous 713X0 Printing-Binding AFSC, with the other 29 percent of the group indicating a previous 713X2 Duplicating AFSC. Twenty-nine percent of these individuals reported a group level of organization and 100 percent reported production controller as a major work title. Fifty-seven percent of these individuals indicated rotation among the functions performed by their organization. Only 14 percent of this group reported supervising other personnel. None of these respondents were graduates from the Reprographics course at Ft. Belvoir.

Job satisfaction indices revealed that 71 percent of this group finds their job interesting, but only 43 percent feel their talents are well utilized. Only 43 percent plan to reenlist, with 29 percent intending not to reenlist (see Table II).

XII. MICROGRAPHICS PERSONNEL (GRP018). The 13 members of this group account for three percent of the total sample. With 79 percent of their job time spent performing micrographics functions, this group is highly specialized. One hundred percent of these incumbents report micrographics as the functional area where the majority of their time is spent (see Table 13). Respondents in this group concentrate on the performance of micrographic tasks including operating micrographics equipment. On the average, these individuals perform 37 tasks. Some of these common tasks include:

operate cameras thread film into micrographics equipment (ME) feed originals through ME perform density step tests load bulk films into ME cut fiche

Thirty-one percent of these incumbents are in MAC, 31 percent are in AFSC, and 23 percent are in SAC. Fifty-four percent of this group are female. Indicative of the specialized nature of this group, only 39 percent of these members report rotating among the various organizational functions. None of these individuals report supervising other personnel, with 69 percent of the incumbents in their first enlistment and an average time in service (TAFMS) of only 60 months. In addition, no micrographics personnel reported a DAFSC higher than a 5-skill level. Thirty-one percent of the group reported working at a group level of organization. The major work title reported by these individuals was that of microphotographer. Common equipment used by these incumbents includes automatic film processors, computer output microform devices, and planetary micrographic cameras. Overall, the micrographics personnel are a low experience group with a highly specialized job.

As Table 11 reveals, 77 percent of these personnel find their job interesting and feel their talents are well utilized. However, only 54 percent plan to reenlist, with 46 percent planning not to reenlist.

# Summary

There are five major functional areas identified within the 703X0 Reprographics career ladder. These areas are printing, duplicating, photolithography, binding, and micrographics. Most job groups broke out according to concentration in one or more of these areas. However, from reviewing the job groups and the percentage of members in each group from each of the previous AFSs which merged to form the 703X0, jobs did not break out totally according to previous AFSC. Examination of previous AFSCs of the personnel comprising each job group revealed that the previous AFSC was not a reliable indicator of the job the individual now performs. Rather, the job performed tends to be partially a function of the base where the person is assigned. Although offset duplicators are the main concentration of the career ladder, personnel assigned to bases with printing presses sometimes perform printing press funcions. Overall, the 703X0 Reprographics career ladder can be described as a heterogeneous career ladder, with groups differing mainly according to the functional area(s) of their concentration.

IABLE 6

RELATIVE PERCENT LIME SPENT ON DULLES BY CLUSTERS

UTES	SUPERVISORS (N=75)	LINE & HALFONE, OFFSET AND LAYOUT S & PRIN STRIPPING PERSON PERSONNEL (N=28) (N=43)	LINE & HALFTONE, OFFSET DELICATOR GFESET AND LAYOUT & & PRINTING PRESS DEPTCATOR STREPLING PERSONNEL PERSONNEL (N=28) (N=43) (N=99)	OFFSET DUPLICATOR PERSONNET (N=99)	OFFSEL BEPLICATOR PROVING LECTROLIAN PROSC SUPERLISOR PERSOANE PERSOANEL (N.Y.) (N.E.;	PRINTING PRESSONNEL PERSONNEL (N. 13)	BIMPEN PERSONNEL
OKGANIZING AND PLANNING	51	2	_	-	2	*.	
DIRECTING AND IMPLEMENTING	24	, ~~			<u> </u>	Į, z.,	
EVALUATING AND INSPECTING	81	· .g			7	J • •	
TRAINING	œ	-	44	ų¢.	-5	,	
PERFORMING ADMINISTRATIVE AND SUPPLY							
FUNCTIONS	27	-		٠,	3	ı	
PERFORMING COPY MANAGEMENT FUNCTIONS	12	7			ني	l e s	
PERFORMING ELECTROSTATIC MASTER FUNCTIONS	ONS 1	7	ē	2.2		. ¬	
OPERATING AND MAINTAINING OFFSET							
DIPLICATORS	٠,	*	ŧ.	å	1.7	:.	
PERFORMING BINDERY FUNCTIONS	7	<b>x</b> c	7	:-		÷	,"
PERFORMING PRINTING PRESS FUNCTIONS	2.54	7,	***	.,		Ş	
PREPARING LINE OR HALFTONE NEGATIVES AND	Ν̈́υ						
PUSITIVES	-	95			F-1		
PERFORMING LAYGUT AND STRIPPING FUNCTIONS	SNS 2	<u>.</u>			ં ન્ય	٠,	
PERFORMING PLATEROOM FUNCTIONS	47		**				43
PERFORMING MICROGRAPHIC FUNCTIONS	_	e i					٠,

\* OENOTES LESS THAN ONE PERCENT

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RELATION FEACENT LITE AFRI ON BOTTEN BY INDEPENDENT AND INPENS

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		CONTRACTOR SASTER	AND FINDERS	AM, BINDERS	Cos (Rol.	MICROGRAPHIC
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7	3 ORGANIZING AND PLANNING	. •	4	٠	ć	~
ac ac	LIRECTING AND IMPLEMENTING	÷	,^		56	2
ب <u>د</u> ن	EVALUATING AND INSPECTING	7	्र	æ	9.7	مم
1 1	TRAINING		17	Ξ	1.114	-
ند	PERFORMING ADMINISTRATIVE AND SUPPLY PUNCTIONS	۰			•3	· (**)
بطن مدة	PERFORMING COPY MANAGEMENT FUNCTIONS	~		~7	,	
بد و	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	15	3			ń.
H	OPERATING AND MAINTAINING OFFSET DUPLICATORS	***		, **	N) a	
-	PERFORMING BINDERY FUNCTIONS	7.1	•	14	٠.	
<u>بد</u>	PERFORMING PRINTING PRESS FUNCTIONS	C1	* :	ž	,.	.142
ىد <b>د</b>	PREPARING LINE OR HALFTONE NEGATIVES AND POSITIVES					-3*
ىد نــ	PERFORMING LAYOUT AND STRIPPING FUNCTIONS	4	n d	-3	×	+,¢
3T	PERFORMING PLATEROOM FUNCTIONS	20.		7	-j¢	_
ш ¥5	PERFORMING MICROGRAPHIC FUNCTIONS	• \$		e i	No.	6/

\* DENOTES LESS THAN ONE PERCENT

# TABLE 8 BACKGROUND INFORMATION FOR CLUSTERS

.,	SUPERVISORS (GRP021)	LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL (GRPO52)	OFFSET DUPLICATOR AND PRINTING PRESS PERSONNEL (GRP096)	OFFSET DUPLICATOR PERSONNEL (GRP106)	OFFSET DUPLICATOR TECHNICIAN-SUPERVISOR PERSONNEL (GREIOT)	PRINTING PRESS PERSONNEL (GRP044)	BINDERY PERSONNEL (GRP016)
NUMBER IN GROUP PERCENT OF SAMPLE PERCENT LOCATED OVERSEAS	75 15% 25%	854 848		99 19% 23%	55 1173 46%	T 26.00	23 7* 26*
DAFSC DISTRIBUTION 70330 70350 70370 70370	2.3% 6.7% 1.0%	**************************************		54 84 8 E	\$2. \$4.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A Million Hara
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(MONTHS TICE) AVERAGE TIME IN SERVICE	80	xx xx	67	्। ज	× <del>1</del>	7	-
(HONTHS TAPHS) PERCENT IN FIRST ENLISTMENT PERCENT SUPERVISING	193 1% 72%	107 36% 21%	6 is 512 54	#100 1000	- 38 €8 N C 1 1.0 S 8 €8	20 mg (20 mg) 12 mg (20 mg)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVERAGE NUMBER OF TASKS PERFORMED. AVERAGE TASK DIFFECULTY DED IN IT ARE	8/	103	8:	Û,	१ च ।	Ê	3
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PERCENT COMPLETING REPROGRAPHICS COURSE AT FT. BELVOIR PERCENT OF FEMALE MEMBERS PERCENTAGE DEFAILTING MANCE	, 4 % %	25 Z.T. Z		말었	જે હૈ	22	2.5
GREANTZATIONAL FUNCTIONS	%69	11%	200	4.55	*34		ż

TABLE 9

BACKGROUND INFORMATION FOR INDEPENDENT JOB TYPES

MICROGRAPHIC PERSONNEL (GRP018)	13 3% 0%	31% 69%	3.9 54 60 69% 0%	37 4.9 10.0	84 544 394
PRODUCTION CONTROL PERSONNEL (GRP071)	7 188 148	14% 43% 43%	4.9 125 130 29% 14%	9 5.0 7.4	14%
PRINTING PRESS, AND BINDERY TRAINERS (GRP077)	7 14% 14%	14% 43% 43%	4.7 113 135 14% 86%	329 5.1 21.0	31% 31% 86%
PRINTING PRESS, OFFSET DUPLICATOR, AND BINDERY PERSONNEL (CPP114)	55 11% 22%	11% 64% 25%	4.7 84 102 27% 42%	166 4.6 18.6	2% 0% 67%
OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER PERSONNEL (GRP105)	39 8% 28% 8%	8% 79% 13%	4.8 86 106 26% 36%	93 4.5 13.8	5% 15% 69%
	NUMBER IN GROUP PERCENT OF SAMPLE PERCENT LOCATED OVERSEAS	DAFSC DISTRIBUTION 70330 70350 70370 70390	AVERAGE GRADE AVERAGE TIME IN CAREER FIELD (MONTHS TICF) AVERAGE TIME IN SERVICE (MONTHS TAFMS) PERCENT IN FIRST ENLISTMENT PERCENT SUPERVISING	AVERAGE NUMBER OF TASKS PERFORMED AVERAGE TASK DIFFICULTY PER UNIT OF TIME SPENT (ATDPUTS) JOB DIFFICULTY INDEX (JDI)	PERCENT COMPLETING REPROGRAPHICS COURSE AT FT. BELVOIR PERCENT FEMALE MEMBERS PERCENTAGE ROTATING AMONG ORGANIZATIONAL FUNCTIONS

TABLE 10

JOB SATISFACTION AND RELATED DATA FOR CIVSTERS (PERCENT MEMBERS RESPONDING)

DUTLES	SUPERCISORS (N=75)	LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL (N=28)	OFFSET DUFLICATOR AND PRINTING PRESS PERSONNEL (N=3)	GFSLT DUPLICATOR PERSONNEL (N=99)	OFFILE EUPLICATOR TECHNICIAN-SUPERVISOR PERSOANEL (N=55)	PRINTING PRESS PERSONNEL (N=13)	BINDERY PERSONNEL (N=23)
I FIND MY JOB:							
DULL. SO-SO INTERESTING	84 84 84 m 00 80 m	7. 2. 5. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	16%	1888 2000 2000	16%	16%	90 F.
MY JOB UTILIZES MY TALENTS:							
NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	58 95%	21%	21 L 32 34	3.45 9999	ر الاردي الاردي	37 64 50 10 	
MY JOB UTILIZES MY TRAINING:							
NOT AT ALL TO CERY LITTLE FAIRLY WELL OR BETTER	88.86 92.88	80 St 84 St 84 St	34°34' 60°65'	20%	84 84 84 84 84 84	315	
REENLISTMENT INTENTIONS:							
WILL RETIRE PLAN NOT TO REFNLIST PLAN TO PLENLIST	212 112 588	7.5 5.5 7.9 5.79	89 34 88 1 47 07	3.24 P. 1.3.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	88 88 CO	4 4,44 4,44 4,44	

NOTE: COLUMNS MAY NOT ADD UP TO 100% INCL. TO "NO RESPONSE"

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TABLE 11

JOB SATISFACTION AND RELATED DATA FOR INDEPENDENT JOB TYPES (PERCENT MEMBERS RESPONDING)

	OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER PERSONNEL (N=39)	PRINTING PRESS, OFFSET DUPLICATOR, AND BINDERY PERSONNEL (N=55)	PRINTING PRESS, AND BINDERY TRAINERS (N=7)	PRODUCTION CONTROL PERSONNEL (N=7)	MICROGRAPHIC PERSONNEL (N=13)
I FIND MY JOB:					
DULL SO-SO INTERESTING	18% 26% 56%	11% 20% 67%	29% 14% 43%	14% 14% 71%	0% 23% 77%
MY JOB UTILIZES MY TALENTS:					
NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	23% 72%	33% 66%	%9 80%	57% 43%	23%
MY JOB UTILIZES MY TRAINING:					
NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	18% 80%	16 <b>%</b> 82 <b>%</b>	%% 0 8 8	29% 71%	15% 85%
REENLISTMENT INTENTIONS:					
WILL RETIRE PLAN NOT TO REENLIST PLAN TO REENLIST	3% 15% 82%	9% 15% 71%	14% 29% 57%	28 <b>%</b> 73 <b>%</b> 73%	00 46% 54%

NOTE: COLUMNS MAY NOT ADD UP TO 100% DUE TO "NO RESPONSE"

TABLE 12

PREVIOUS AFSCs HELD PRIOR TO AFSC 703X0 ACCORDING TO JOB GROUPS

PREVIOUS AFSCS HELD
OTHER
114 100 100 100 100 100 100 100 100 100
2000 100 100 100 100 100 100 100 100 100

NOTE: LINES MAY NOT ADD UP TO 100% DUE TO "NO RESPONSE"

TABLE 13

FUNCTIONAL AREA MAJORITY OF TIME SPENT ACCORDING TO JOB TYPES (PERCENT MEMBERS RESPONDING)

			FUNCTIO	FUNCTIONAL AREA			
JOB TYPES	PRINTING	DUPLICATING	PHOTO- LITHOGRAPHY	BINDING	MICROGRAPHICS	OTHER	TOTAL*
SUPERVISORS I INE AND HAIFFONE AND LAVOIT AND	8%	25%	1%	3%	5%	52%	<b>%</b> 56
STRIPPING PERSONNEL	1%	11%	%89	1%	847	%0	816
PERSONNEL	61%	37%	%0	2%	%0	%0	100%
OFFSET DUPLICATOR PERSONNEL	34%	59%	%0	2%	%0	7%	%/6
OFFSET DUPLICATOR, BINDERY, AND							
ELECTROSTATIC MASTER PERSONNEL OFFSET DIPLICATOR TECHNICIAN-	18%	<b>%</b> 777	3%	18%	%0	15%	%86
SUPERVISOR PERSONNEL	%6	55%	%0	%9	%0	29%	%66
PRINTING PRESS, OFFSET DUPLICATOR,	!	•	!	!		:	
AND BINDERY PERSONNEL	<b>%0</b> 5	22%	7%	15%	20	15%	%66
PRINTING PRESS AND BINDERY TRAINERS	14%	14%	14%	%0	%0	29%	71%
PRINTING PRESS PERSONNEL	878	80	%0	% 8	%0	8	100%
BINDERY PERSONNEL	22%	%7	%0	74%	%0	%	100%
PRODUCTION CONTROL PERSONNEL	14%	29%	%0	<b>%</b> 0	<b>%</b> 0	43%	898
MICROGRAPHICS PERSONNEL	%0	%0	%0	%0	100%	%0	100%

\* NOTE: ROWS MAY NOT ADD UP TO 100% DUE TO "NO RESPONSE"

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#### ANALYSIS OF DAFSC GROUPS

Progression in a career ladder is usually accompanied by changes in the jobs performed. An analysis of the DAFSC groups and a comparison of these groups with the career ladder structure may reveal these changes. This information can then be compared to career ladder documents such as the AFR 39-1 Specialty Descriptions and the Specialty Training Standards (STS) in order to measure their accuracy.

Tables 14, 15, and 16 give representative tasks performed according to DAFSC groups and Table 17 presents the relative percent time spent on duties by skill level groups. From these tables, it can be seen, as is typically the case, managerial and supervisory duties consume increasing amounts of time with skill level advancement. Three- and 5-skill level personnel spent the most time in technical areas, with the 7-skill level respondents providing a transition to the highly managerial and supervisory job of the 9-skill level incumbents. The representative tasks performed by these groups also indicates a transition from a technical to a more supervisory job with advancement.

Table 18 provides the distribution of DAFSC groups across the major job groups identified in the career ladder structure. Again, the more supervisory and managerial jobs are not performed by many 3-skill level incumbents. Five- and 7-skill level personnel form the bulk of the career field.

Three-skill level respondents spent the most time of any group performing micrographic functions. This duty seemed to be performed less with increasing skill level--probably as a result of the relatively recent introduction of the micrographics duty into the career ladder. Printing, duplicating, photolithography, and binding were work areas indicated by many 3- and 5-skill level incumbents and, to a lesser degree, by 7-skill level respondents. This again supports the contention that increasing skill level means decreasing time spent on technical functions.

Overall, the 703X0 career ladder follows the typical pattern of job advancement found in most career ladders. With increasing skill level, personnel spend increasing amounts of time in more managerial and supervisory areas.

TABLE 14

REPRESENTATIVE TASKS PERFORMED BY DAFSC 70330 AND 70350 PERSONNEL

TASKS	3	PERCENT PERFORMING (N=350)
Н189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	73
H195	ADJUST OD INK FLOW	73
H205	MIX OD FOUNTAIN SOLUTIONS	71
H228	RUN MASTERS THROUGH MASTER CONVERTERS	70
H229	SET OD COUNTERS	69
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	69
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	69
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	68
H197	ADJUST OD PILE HEIGHT CONTROLS	68
H190	ADJUST FEEDING UNIT BLOWERS	68
H226	REPLENISH OD INK FOUNTAINS	67
H212	REMOVE OD MASTERS AND CLEAN BLANKETS	67
H191	ADJUST OD GUIDES OR CYLINDERS	66
H203	LOAD OD FEEDER SYSTEMS	63
I261	OPERATE COLLATORS	63
H201	CLEAN OD FEEDER ROLLERS	62
1284	STAPLE PAPER	62
1262	OPERATE CUTTERS	61
H230	SET OD MULTISHEET DETECTORS	61
1245	COLLATE PAPER BY HAND	61
H198	ADJUST OD ROLLERS	60
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	60
H199	ADJUST PRESSURE BETWEEN MASTER CYLINDERS AND BLANKET	
	CYLINDERS	60
H204	LUBRICATE ODs	59
1263	APERATE DRILLS	50

TABLE 15

REPRESENTATIVE TASKS PERFORMED BY DAFSC 70370 PERSONNEL

TASKS		PERCENT PERFORMING (N=149)
A5	DETERMINE WORK PRIORITIES	77
B50	REVIEW PRINTING REQUESTS	73
B33	DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION	72
B32	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	67
C90	PREPARE APRS	67
A8	DEVELOP WORK METHODS OR PROCEDURES	66
A11	ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS	
	OR STANDARD OPERATING PROCEDURES	66
E133	MAINTAIN LOGS OF JOBS PROCESSED	64
B35	DIRECT EQUIPMENT MAINTENANCE	64
A12	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	64
B56	SUPERVISE REPROGRAPHIC SPECIALISTS (AFSC 70350)	62
B44	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	62
A14	ESTABLISH PRODUCTION CONTROLS	62
	SCHEDULE WORK ASSIGNMENTS	67
B60	WRITE CORRESPONDENCE	61
C62	ANALYZE WORKLOAD REQUIREMENTS	60
F151	ADVISE USERS ON COPYING PROCEDURES	59
A22	PLAN WORK ASSIGNMENTS	59
A7	DEVELOP STANDARDS FOR PRINTED MATERIALS	59
B45	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	58
B38	DIRECT UTILIZATION OF EQUIPMENT	57
B49	PREPARE REQUISITIONS FOR SUPPLIES OR EQUIPMENT	56
C61	ACCOUNT FOR MATERIALS EXPENDED	56
C65	EDIT COMPLETED WORK FOR COMPLIANCE WITH WORK REQUESTS	55
B37	DIRECT QUALITY CONTROL PROGRAMS	55
E149	PICK UP SUPPLIES	55

TABLE 16

REPRESENTATIVE TASKS PERFORMED BY DAFSC 70390 PERSONNEL

TASKS		PERCENT PERFORMING (N=10)
B50	REVIEW PRINTING REQUESTS	100
B60	WRITE CORRESPONDENCE	90
A11	ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS,	
	OR STANDARD OPERATING PROCEDURES	90
A9	DRAFT BUDGET OR FINANCIAL REQUIREMENTS	80
C90	PREPARE APRS	80
	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	80
C71	ENDORSE AIRMAN PERFORMANCE REPORTS (APRS)	80
A12	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	80
A4	DETERMINE REQUIREMENTS FOR SPACE, EQUIPMENT, PERSONNEL,	
	OR SUPPLIES	80
A5	DETERMINE WORK PRIORITIES	80
B41	IMPLEMENT SECURITY PROGRAMS	80
<b>A</b> 3	CALCULATE VALUE OF EQUIPMENT	80
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	80
C73		70
B58		70
C62	ANALYZE WORKLOAD REQUIREMENTS	70
C61	ACCOUNT FOR MATERIALS EXPENDED	70
C75	EVALUATE EQUIPMENT BEFORE PURCHASE OR RENTAL	70
A27		70
C77	EVALUATE INSPECTION REPORTS OR PROCEDURES	70
B33	DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION	70
B30	COMPLETE PERSONNEL ACTION REQUESTS	70
	EVALUATE JOB DESCRIPTIONS	70
B40	IMPLEMENT SAFETY PROGRAMS	70
A8	DEVELOP WORK METHODS OR PROCEDURES	70

TABLE 17

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS

DU	TIES	DAFSC 70330 PERSONNEL (N=68)	DAFSC 70350 PERSONNEL (N=282)	DAFSC 70370 PERSONNEL (N=149)	DAFSC 70390 PERSONNEL (N=10)
Α	ORGANIZING AND PLANNING	2	5	12	18
В	DIRECTING AND IMPLEMENTING	1	6	17	25
С	EVALUATING AND INSPECTING	2	4	11	24
D	TRAINING	*	2	5	4
E	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	3	4	8	10
F	PERFORMING COPY MANAGEMENT FUNCTIONS	1	4	7	7
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	11	10	6	1
H	OPERATING AND MAINTAINING OFFSET DUPLICATORS	37	31	12	3
I	PERFORMING BINDERY FUNCTIONS	17	16	10	3
J	PERFORMING PRINTING PRESS FUNCTIONS	15	10	4	*
K	PREPARING LINE OR HALFTONE NEGATIVES OR				
	POSITIVES	4	3	4	2
L	PERFORMING LAYOUT AND STRIPPING FUNCTIONS	1	1	2	1
M	PERFORMING PLATEROOM FUNCTIONS	1	1	1	*
N	PERFORMING MICROGRAPHIC FUNCTIONS	5	3	1	*

<sup>\*</sup> DENOTES LESS THAN ONE PERCENT

TABLE 18

DISTRIBUTION OF DAFSC PERSONNEL ACROSS JOB GROUPS

	DAFSC 70330	DAFSC 70350	DAFSC 70370	DAFSC 70390
JOB GROUPS	PERSONNEL	PERSONNEL	PERSONNEL	PERSONNEL
SUPERVISORS (GRP021)	-	17	50	
LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL (GRP052)	,	1/	0	1
OFFSET DUPLICATOR AND PRINTING PRESS	4	14	9	1
PERSONNEL (GRP096)	16	25	2	-
OFFSET DUPLICATOR PERSONNEL (GRP106)	22	72	5	-
OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER PERSONNEL (GRP105)	3	31	5	-
OFFSET DUPLICATOR TECHNICIAN SUPERVISOR				
PERSONNEL (GRP101) PRINTING PRESS, OFFSET DUPLICATOR, AND	-	14	41	-
BINDERY PERSONNEL (GRP114)	6	35	14	-
PRINTING PRESS AND BINDERY TRAINERS (GRP071)	1	3	3	-
PRINTING PRESS PERSONNEL (GRP044)	1	11	1	-
BINDERY PERSONNEL (GRP016)	3	14	6	-
PRODUCTION CONTROLLERS (GRP071)	1	2	4	-
MICROGRAPHICS PERSONNEL (GRP018)	2	8	3	-
NOT GROUPED	9	<u>36</u>	6	1
TOTAL	68	282	149	10

#### ANALYSIS OF EXPERIENCE (TAFMS) GROUPS

In addition to analyzing the differences in the job performed across skill level groups, it is also necessary to examine the jobs performed by personnel according to their experience in the career ladder. This is accomplished by comparing the different TAFMS groups, with the most extensive analysis being between the first, second, and career enlistment groups.

Table 19 provides the percent time spent on duties by incumbents in the various enlistment groups. As the table displays, with increasing time in the service, more time is spent in the supervisory and managerial areas; however, with increasing experience, less time is spent in the technical areas. This follows the trend noted in skill level progression.

## First Enlistment Personnel (1-48 Months TAFMS)

Operating offset duplicators and performing bindery functions consumes the largest amount of first enlistment personnel's job time. These individuals spend half of their job time performing 45 tasks, most of which were offset duplicator or bindery tasks. Illustrating the technical nature of their job, first enlistment personnel had their highest concentrations in the Offset Duplicator and Printing Press Personnel cluster (see Figure 2). Other technical aspects of their job included printing press and micrographics duties which were found to be performed to the greatest extent by first enlistment personnel.

First enlistment individuals revealed the lowest job satisfaction of any experience group (see Table 20), with only 56 percent of the members finding their job interesting and only 41 percent planning to reenlist. Compared to the other experience groups, first enlistment personnel also felt their talents were not very well utilized. In summary, the first enlistment group performs an almost totally technical job and these individuals are the most dissatisfied with their work of any experience group.

#### Job Satisfaction

An additional comparison which sheds light on job satisfaction in the career field in general is a comparison of job satisfaction indices of 703X0 personnel with personnel in similar career ladders (see Table 20).

Overall, 703X0 personnel report similar job satisfaction to the other comparative career ladders. Second enlistment 703X0 personnel show the most difference from the comparative sample, with these incumbents having slightly higher job satisfaction. Otherwise, the 703X0 is similar to most other career fields performing jobs of a comparative nature.

TABLE 19

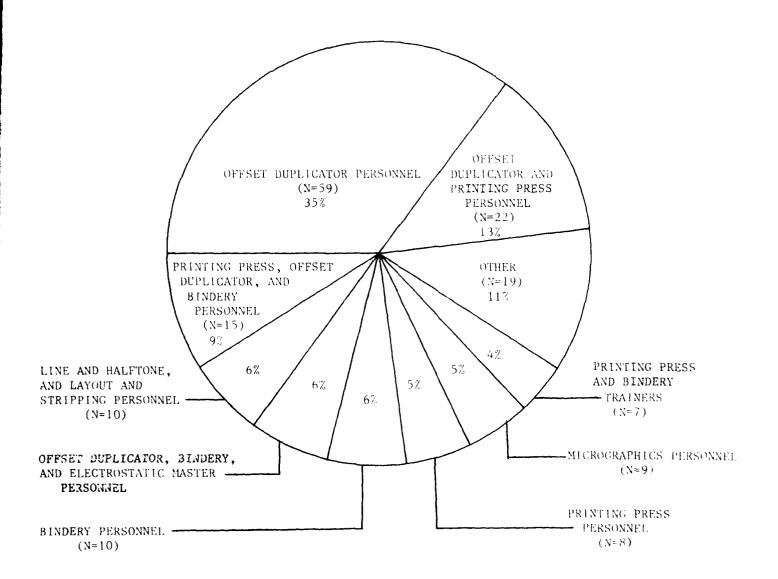
RELATIVE PERCENT TIME SPENT ON DUTIES BY TAFMS GROUPS

				MONTHS TAFMS	TAFMS		
		1-48	96-67	97-144	145-192	193-240	241+
2	DUTIES	(N=169)	(N=87)	(N=88)	(N=65)	(N=67)	(N=33)
<	OBGANIZING AND PLANNING	2	2	7	12	13	16
. æ	DIRECTING AND IMPLEMENTING	æ	7	9		20	19
U	EVALUATING AND INSPECTING	2	4	7	∞	12	17
Ω	TRAINING	⊰<	7	m	7	2	7
(±1	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	c	2	9	9	œ	11
<u>.</u>	PERFORMING COPY MANAGEMENT FUNCTIONS		4	2	7	7	9
ပ	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	11	10	∞	7	5	~
H	OPERATING AND MAINTAINING OFFSET DUPLICATORS	37	32	22	18	12	9
Н	PERFORMING BINDERY FUNCTIONS	18	14	12	13	10	10
-	PERFORMING PRINTING PRESS FUNCTIONS	12		8	δ	~-	~
×	PREPARING LINE OR HALFTONE NEGATIVES AND POSITIVES	೮	က	5	2	7	33
7	PERFORMING LAYOUT AND STRIPPING FUNCTIONS	2	_	3	~	2	નુંદ
X	PERFORMING PLATEROOM FUNCTIONS	-	_	7		<b>ન</b> ે	નુંદ
z	PERFORMING MICROGRAPHIC FUNCTIONS	2	1	7	_	~-	*

DENOTES LESS THAN ONE PERCENT

FiGC\*E 2

DISTRIBUTION OF 703X0 FIRST ENLISTMENT PERSONNEL ACROSS CAREER LADDER JOBS (PERCENTAGES OF TOTAL FIRST ENLISTMENT PERSONNEL RESPONDING TO SURVEY)



TOTAL RESPONDENTS N=169

JOB SATISFACTION INDICES FOR FIRST ENLISTMENT, SECOND ENLISTMENT, AND CAREER 703X0 GROUPS (PERCENT MEMBERS RESPONDING)

	FIRST	FIRST ENLISTMENT	SECOND	SECOND ENLISTMENT	2	CAREER
	703X0 (N=169)	COMPARATIVE* SAMPLE (N=2,190)	703X0 (N=87)	COMPARATIVE* SAMPLE (N=1,158)	703X0 (N=253)	COMPARATIVE* SAMPLE (N=2,274)
I FIND MY JOB:			ì	ç	ă	12
DULL SO-SO INTERESTING	21 22 56	21 21 58	14 19 67	18 22 59	16 17 74	16 70
MY JOB UTILIZES MY TALENTS:				•	ç	22
NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	35 63	31 69	17 82	28 72	91 97	77
MY JOB UTILIZES MY TRAINING:				ć		22
NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	19 79	22 78	18 81	25 73	83	77
REENLISTMENT INTENTIONS:				i.	ć	30
PLAN NOT TO REENLIST (INCLUDES RETIREES) PLAN TO REENLIST	56 41	52 46	30	35 64	68	69

NOTE: COLUMNS MAY NOT ADD UP TO 100 PERCENT DUE TO "NO RESPONSE"

COMPARATIVE SAMPLE INCLUDES PERSONNEL FROM A NUMBER OF SIMILAR COMMAND SUPPORT CAREER FIELDS SURVEYED IN 1980 (INCLUDES AFSC'S: 10XXX, 24XXX, 65XXX, 67XXX, 69XXX, 70XXX, 71XXX, 73XXX, 74XXX, 79XXX 87XXX)

## COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS

In order to insure accuracy and possibly update the 703X0 AFR 39-1 Specialty Descriptions, occupational survey data were compared against the October 1979 descriptions for DAFSCs 70310/30/50, 70370, and 70390/CEM Code 70200. Overall, the 70310/30/50 and the 70390/CEM Code 70200 documents were found to be accurate representations of the jobs of these personnel. However, possible refinements in the 7-skill level description may be necessary.

While the 70370 AFR 39-1 Specialty Description generally reflects the tasks and duties performed by 7-skill level personnel, the description may be slightly misleading. The present Specialty Description gives the general impression of the technician as performing a technical job, with supervisory duties as a minor consideration. In actuality, 70370 personnel report performing mainly a supervisory job, with technical tasks being a smaller, but still a large part of the job. For example, the technicians responding to this survey reported supervisory duties as absorbing 53 percent of their time, administrative duties eight percent of their time, and technical duties 39 percent of their time.

Consequently, a minor revision of the AFR 39-1 70370 Specialty Description is recommended in which the general emphasis of the duties and responsibilities displayed is shifted from the technical to the supervisory aspect of the job. This might best be accomplished by extending the description and adding further examples of supervisory duties and tasks, since the technical tasks listed give a good broad overview of the technical side of the job.

#### TRAINING ANALYSIS

Another important use of occupational survey data is in the area of training. Technical school personnel at Ft Belvoir, VA matched survey data with the 703X0 Specialty Training Standard (STS) dated October 1979. Analysis of this matching can reveal possible areas of improvement in the STS. Along with the STS analysis, occupational survey data allow training personnel to examine the percentage of first enlistment personnel performing tasks, the utilization of equipment by incumbents, training emphasis ratings, and task difficulty ratings. A complete computer listing of the percent members performing, training emphasis ratings, and task difficulty ratings, along with the STS matching, has been forwarded to the technical school for its use in reviewing training documents. A summary of that information follows.

## Analysis of Task Difficulty

The relative difficulty of each task in the job inventory was assessed by 36 experienced 7-skill level 703X0 NCOs. These tasks were processed to produce an ordered listing of all tasks in terms of their relative difficulty and were standardized to have an average difficulty of 5.0 (standard deviation equals 1.0). (For a more detailed description of these ratings, see the Task Factor Administration section in the INTRODUCTION.)

Table 21 lists those tasks rated most difficult by the 703X0 raters. Generally, these were supervisory and managerial tasks. As Table 23 reveals, the least difficult tasks in the career field tended to be binding and printing press functions. The other duties of the career field fell into the spectrum between the least and most difficult tasks. Typical tasks of average difficulty are presented in Table 22. As can be seen, these cover a number of duty areas. Overall, the more difficult tasks, being supervisory and managerial in nature, are performed by incumbents with more experience in the career ladder. The technical tasks, which tend to have lower task difficulty, are the major concentration of the less experienced personnel in the career ladder. This follows the pattern typically found in most career ladders of increasing task and job difficulty with increasing time in the career field. This is also supported by the analysis of job difficulty indices which follows this section.

#### Job Difficulty Index (JDI)

Table 24 lists the 12 major job groups identified in the job structure analysis section. The job groups are listed in order from the most to the least difficult job according to their computed Job Difficulty Index (JDI). (The Task Factor Administration section in the INTRODUCTION of this report gives a more detailed description of the Job Difficulty Index.) Groups were rated either very difficult or less difficult, with no jobs falling into the JDI range from 11.5 to 15.0.

1

As can be seen, the Printing Press and Bindery Framers reported the most difficult job with a JDI of 21.0. Considering the large number of tasks performed by these individuals, this is not surprising. With an average task difficulty per unit time spent (ATDPUTS - a measure of the relative difficulty of the tasks performed by the group) of 5.1, these incumbents performed more difficult tasks in their job as well. The Supervisors cluster reported performance of the most difficult tasks of all groups, with an ATDPUTS of 5.5; however, their Job Difficulty Index was lower at 16.0, due to the lower average number of tasks performed by these members.

The easiest job reported in the career ladder was that of the Bindery Personnel. This group had a Job Difficulty Index of 7.1 with an AIDPUTS of 4.4. The Production Controllers had the next easiest job with a JDI of 7.4. Generally, the higher difficulty jobs appear to be manned by the more experienced incumbents, and the less difficult jobs by the less experienced personnel.

## Analysis of Training Emphasis

The relative training emphasis of each task in the inventory was assessed using ratings of 42 experienced 7-skill level Reprographics NCOs. These ratings were processed to produce an ordered listing of all tasks in terms of their recommended emphasis in the training of first enlistment personnel. The ratings had an average of 3.0 and a standard deviation of 1.7. Results of the analysis of training emphasis are often useful when evaluating specialty training documents, such as the specialty training standard (STS). (For a more complete discussion of these ratings, see the Task Factor Administration section in the INTRODUCTION.)

Table 25 lists those tasks rated highest in training emphasis which are performed by first enlistment personnel. As the table illustrates, the tasks rated highest in training emphasis dealt with offset duplicators, bindery functions, and electrostatic master functions. All but two of the 25 tasks rated the highest in training emphasis had over 50 percent of the first enlistment personnel reporting that they perform them.

Table 26 lists those tasks which senior 703X0 NCOs rate average in training emphasis. The only noticeable trend in these tasks is the lack of a substantial amount of offset duplicator and electrostatic master-related tasks. Only one task in the duty of operating and maintaining offset duplicators, and only one task in the duty of performing electrostatic master functions was rated below average in training emphasis.

Those tasks rated lowest in training emphasis are presented in Table 27. As could be expected, most of these tasks are supervisory or managerial in nature. Few first enlistment personnel reported the performance of these tasks.

Overall, training emphasis ratings indicate that 703X0 senior NCOs feel that the technical tasks, especially in the areas of offset duplicators and electrostatic masters, should have the most emphasis in initial training. Supervisory and managerial tasks need to be trained the least. Administrative tasks tended to fall below average in training emphasis ratings as well. Consequently, according to senior 703X0 personnel, individuals coming into the field should probably be trained mainly in technical areas associated with duplicating.

TABLE 21

EXAMPLES OF TASKS RATED THE MOST DIFFICULT BY SENIOR 703X0 PERSONNEL

TASKS		TASK DIFFICULTY	PERCENT MEMBERS PERFORMING (N=509)
A9	DRAFT BUDGET OR FINANCIAL REQUIREMENTS	8.52	21
	PREPARE REQUESTS FOR BIDS	7 66	9
Cas	WRITE STAFF STUDIES SURVEYS OR SPECIAL REPORTS	7.64	12
H232	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS SET TIMING BETWEEN FEEDING UNITS AND DUPLICATING HEADS	7.64 7.42	24
A10	ESTABLISH JOB ORDER COST ACCOUNTING PROCEDURES	7.40	16
R217		7.75	
112 17	CYLINDER GRIPPERS	7.36	17
073		7.27	18
	ADJUST PRINTING PRESS (PP) FEEDER TIMING	7.19	10
J290	· · ·	7.18	7
B60		7.10	29
A11	.,	,	_,
	STANDARD OPERATING PROCEDURES	7.06	29
A26	PREPARE UNIT EMERGENCY OR DISASTER PLANS	7.01	5
		7.00	6
H218	· · · · · · · · · · · · · · · · · · ·	6.96	20
D107			
	CURRICULUM MATERIALS	6.95	3
D94	ACT AS UNIT OR STAFF LEVEL TRAINING ADVISOR	6.94	7
A4	DETERMINE REQUIREMENTS FOR SPACE, EQUIPMENT, PERSONNEL, OR		
	SUPPLIES	6.88	31
D105	DEVELOP COURSE CURRICULA	6.87	3
D125	WRITE JUSTIFICATIONS FOR TRAINING FACILITIES, EQUIPMENT,		
	PUBLICATIONS, OR MATERIALS	6.87	4
H223	REMOVE OR REPLACE OD SOLENOIDS	6.85	14
	WRITE TEST QUESTIONS	6.77	4
C75		6.65	23
C92	WRITE CIVILIAN PERFORMANCE RATINGS OR SUPERVISORY APPRAISALS	6.60	10
	DETERMINE JOB SPECIFICATIONS FOR PREPARING LINE OR HALFTONE		
	NEGATIVES OR POSITIVES	6.57	4
J289	ADJUST PP BACKLASH GEARS	6.57	4

TABLE 22

EXAMPLES OF TASKS RATED AVERAGE IN DIFFICULTY BY SENIOR 703X0 RATERS

TASKS		TASK DIFFICULTY	PERCENT MEMBERS PERFORMING (N=509)
E138	MAKE ENTRIES ON ANNUAL MAP AND/OR CHART PLANT REPORT FORMS		
	(JCP FORM 729)	5. <b>06</b>	2
E145			
	RECORD FORMS (JCP FORM 4)	5.50	19
K360		5.50	6
	ADJUST COPYBOARDS	5.50	10
	REMOVE OR REPLACE OFFSET DUPLICATOR (OD) DAMPENER COVERS	5.05	53
	MIX MICROGRAPHIC CHEMICALS	5.05	4
	DETERMINE JOB SPECIFICATIONS OF DUPLICATING JOBS	5.02	20
N459		5.01	3
B34	, , , , , , , , , , , , , , , , , , ,		
	OR CHARTS	5.01	13
K383	PREPARE COPYBOARDS FOR BACKLIGHTING	5.00	4
N480	TEST FILM RESOLUTION WITH MICROSCOPES	5.00	3
K381	MAKE CONTACT NEGATIVES OR POSITIVES	5.00	6
E140			
	FORM 2)	5.00	9
1242	ADJUST STITCHERS	5.00	9
K353	ADJUST CAMERA LIGHTS	5.00	44
E137	MAKE ENTRIES ON ANNUAL INVENTORY OF STORED MACHINERY AND		
	EQUIPMENT FORMS (JCP FORM 6)	5.00	4
L411	INSPECT NEGATIVES	4.99	8
F161	MAINTAIN RECORDS OF COPIER MONITORS	4.99	25
I238	ADJUST FOLDER FEED BOARD STRAPS	4.99	7
N451		4.99	3
K385	PREPARE FILM PROCESSOR CLEANING SOLUTIONS	4.98	4
J301		4.98	22
1265		4.97	10
E141	MAKE ENTRIES ON CONSOL. DUPL. CTR. AND FACS. REPORT OF JOBS		
<del>-</del>	PROD. WHICH EXCEED JCP DUPL. LIMIT. FORMS (AF FORM 337)	4.97	15
1268	· · · · · · · · · · · · · · · · · · ·	4.97	3

TABLE 23

EXAMPLES OF TASKS RATED THE LEAST DIFFICULT BY SENIOR 703X0 PERSONNEL

TASKS		TASK DIFFICULTY	PERCENT MEMBERS PERFORMING (N=509)
1258	LUBRICATE STITCHERS	3.33	26
H231		3.32	49
L407		3.30	6
J341	•	3.28	
1246		3.26	10
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	3.26	53
J326	POSITION PP DELIVERY DOLLIES	3.18	6
1287	WRAP PRINTED MATERIALS MANUALLY	3.17	15
H226	REPLENISH OD INK FOUNTAINS	3.11	60
J310		3.10	24
J340		3.10	22
I 257		3.10	3
	REPLENISH PP WATER FOUNTAINS	3.05	21
1284		3.05	58
J348		3.05	23
	TRIM DUPLICATING MASTERS	3.03	44
	REMOVE OR REPLACE CAMERA LENS CAPS	3.02	6
F166		3.01	27
1245		2.96	56
1277		2.95	21
1248		2.83	50
J317	DESTROY PRINTING PLATES	2.77	15
1247		2.66	19
H228		2.34	62
H229	SET OD COUNTERS	2.26	62

TABLE 24

703X0 JOBS 1N ORDER OF JOB DIFFICULTY INDEX (JDI)

JD1*	ATDPUTS**	AVERAGE NUMBER OF TASKS PERFORMED
21.0	5.1	329
18.8	4.9	143
18.6	4.6	166
16.0	5.5	78
15.0	4.7	103
11.5	4.6	67
11.4	4.2	80
10.0	4.9	37
8.4	4.1	50
7.4	5.0	9
7.1	4.4	30
	21.0 18.8 18.6 16.0 15.0 11.5 11.4 10.0 8.4 7.4	21.0 5.1 18.8 4.9 18.6 4.6 16.0 5.5 15.0 4.7 11.5 4.6 11.4 4.2 10.0 4.9 8.4 4.1 7.4 5.0

<sup>\*</sup> RELATIVE JOB DIFFICULTY OF SPECIALTY JOBS AS PREDICTED USING A FORMULA DEVELOPED BY RESEARCH OF THE AIR FORCE HUMAN RESOURCES LABORATORY.

AVERAGE JOB DIFFICULTY (MEAN) IS SET AT 13.0.

<sup>\*\*</sup> AVERAGE TASK DIFFICULTY PER UNIT TIME SPENT (ATDPUTS) IS CALCULATED USING A FORMULA DEVELOPED BY RESEARCH OF THE AIR FORCE HUMAN RESOURCES LABORATORY.

TABLE 25

703X0 TASKS RATED HIGHEST IN TRAINING EMPHASIS

			PERCENT
			MEMBERS
			PERFORMING
TASKS		EMPHASIS	(1-48 MOS TAFMS)
U105	ADJUST INK FLOW	7.00	72
11200	MIX OFFSET DUPLICATOR (OD) FOUNTAIN SOLUTIONS		• —
		6.90	
	ADJUST OD PILE HEIGHT CONTROLS	6.76	
H189		6.74	
G180			
1261		6.69	
1262	***************************************	6.69	
	AD. UST OD ROLLERS	6.67	
H207	· · · · · · · · · · · · · · · · · · ·	6.67	65
H199			
	CYLINDERS	6.64	
H2 <b>0</b> 4	LUBRICATE ODs	6.64	
H191	LUBRICATE ODS ADJUST OD GUIDES OR CYLINDERS SET OD MULTISHEET DETECTORS REMOVE OR REPLACE OD DAMPENER COVERS ADJUST OD FEEDING UNIT BLOWERS OPERATE DRILLS	6.62	
H230	SET OD MULTISHEET DETECTORS	6.62	
H214	REMOVE OR REPLACE OD DAMPENER COVERS	6.55	
H190	ADJUST OD FEEDING UNIT BLOWERS	6.52	
<b>126</b> 3	OPERATE DRILLS	6.45	57
H196	ADJUST OD PAPER BUCKLES	6.40	52
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	6.33	69
G179	CLEAN ELECTROSTATIC MASTER IMAGER (EMI) GLASS,		
	COPYBOARDS, MIRRORS, OR LENSES	6.26	50
G182	MAKE CORRECTIONS ON ELECTROSTATIC MASTERS	6.24	48
1279	REMOVE OR REPLACE CUTTING BLADES	6.24	18
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	6.19	<b>6</b> 5
G170	ADJUST EMI EXPOSURE TIME	6.14	
	LOAD OD FEEDER SYSTEMS	6.14	60
G185		6.10	25

TABLE 26
703X0 l'ASKS RATED AVERAGE IN TRAINING EMPHASIS

TASKS			PERCENT MEMBERS PERFORMING (1-48 MOS TAFMS)
N457	OPERATE CAMERAS	3.17	10
M427	CLEAN DEVELOPING (RUB UP) TABLES	3.14	5
E144	CLEAN DEVELOPING (RUB UP) TABLES MAKE ENTRIES ON EQUIPMENT MAINTENANCE RECORDS	3.12	5 5
J296	ADJUST PRINTING PRESS (PP) GRIPPER FINGERS	3.12	16
K368		3.12	4
K378	LOAD OR UNLOAD SHEET FILM	3.12	5
I287	WRAP PRINTED MATERIALS MANUALLY	3.07	
J322	MIX INKS	3.07	7
J336	REMOVE OR REPLACE PP SIDE GUIDES	3.05	11
K391	REMOVE OR REPLACE CAMERA LENS CAPS	3.05	6
L420	REMOVE OR REPLACE CAMERA LENS CAPS REMOVE OR REPLACE BULBS IN LIGHT TABLES REMOVE OR REPLACE GRIPPER FINGERS REPLENISH PP POWDER SPRAY ATTACHMENTS	3.05	
J331	REMOVE OR REPLACE GRIPPER FINGERS	3.02	
J341	The state of the s	3.02	4
K380		3.02	2 7
J351		3.00	
	PERFORM OPERATOR MAINTENANCE ON MICROGRAPHIC EQUIPMENT		
	PACK PRINTED MATERIALS MANUALLY	2.98	
K383		2.95	
L422		2.95	4
M430		2.95	4 5 8
L417			
G187		2.91	11
1260		2.91	2
N471		2.91	7
C61	ACCOUNT FOR MATERIALS EXPENDED	2.88	7

TABLE 27

703X0 TASKS RATED LOWEST IN TRAINING EMPHASIS

TASKS			PERCENT MEMBERS PERFORMING (1-48 MOS TAFMS)
B47	MAINTAIN PUBLICATION LIBRARIES	. 31	4
C91		.31	1
D114		.31	1
C76			
	RECLASSIFICATION	.29	1
D95	ADMINISTER TESTS	. 29	1
A26	ADMINISTER TESTS PREPARE UNIT EMERGENCY OR DISASTER PLANS COMPLETE PERSONNEL ACTION REQUESTS MAINTAIN CONTINGENCY PLANS	. 26	3 3 2
B30	COMPLETE PERSONNEL ACTION REQUESTS	. 26	3
B46	MAINTAIN CONTINGENCY PLANS	. 26	2
D106	DEVELOP LESSON PLANS	. 26	1
C72	ENDORSE CIVILIAN PERFORMANCE RATINGS OR SUPERVISORY		
	APPRAISALS	. 24	2
D104	DETERMINE RESIDENT COURSE TRAINING REQUIREMENTS	. 24	1
D107	DEVELOP RESIDENT COURSE OR CAREER DEVELOPMENT COURSE		
	(CDC) CURRICULUM MATERIALS	. 24	
D127	WRITE TRAINING REPORTS	. 24	1
B53	SUPERVISE ADMINISTRATION PERSONNEL (AFSC 702X0) ESTABLISH JOB ORDER COST ACCOUNTING PROCEDURES	.21	2
A10	ESTABLISH JOB ORDER COST ACCOUNTING PROCEDURES	. 19	4
C93	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS	. 19	2
B31	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS CONDUCT STAFF MEETINGS	. 17	4 2 2 5
A9	DRAFT BUDGET OR FINANCIAL REQUIREMENTS	. 14	5
A28	SCHEDULE PERSONNEL FOR SCHOOL, TEMPORARY DUTY (TDY)		
	ASSIGNMENTS, OR NONTECHNICAL TRAINING	. 14	2
D105	DEVELOP COURSE CURRICULA	. 12	1
A15	LOWANT LOU DUDI TOLULOU TENDANTUO	^^	2 2
	PREPARE REQUESTS FOR BIDS SUPERVISE REPROGRAPHIC SUPERINTENDENTS (AFSC 70390) ASSIGN RESIDENT COURSE INSTRUCTORS	. 09	
B57	SUPERVISE REPROGRAPHIC SUPERINTENDENTS (AFSC 70390)	. 09	
D97	ASSIGN RESIDENT COURSE INSTRUCTORS	.09	1
B58	SUPERVISE REPROGRAPHIC TECHNICIANS (AFSC 70370)	. 00	2

#### ANALYSIS OF THE 703X0 SPECIALTY TRAINING STANDARD (STS)

The 703X0 Specialty Training Standard, dated October 1979, was reviewed against survey data for Reprographics personnel in the different skill level groups. Subject matter specialists at the 3300 TCHTW (Keesler AFB, MS) assisted in the analysis by matching job inventory tasks to specific paragraphs in the STS. Each item in the STS was analyzed using task difficulty, training emphasis, and percent members performing vectors. The STS was also examined to insure that all jobs identified in the career ladder structure were included in the document.

Overall, the 703X0 STS provides a comprehensive overview of the jobs performed and equipment used by Reprographics personnel. No areas needing review were found.

#### ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

In some career ladders, personnel stationed overseas perform a different job than those personnel stationed within the Continental United States (CONUS). Because of this possibility, a comparison was made of the tasks performed and the background data of DAFSC 70350 respondents assigned within the CONUS versus those at overseas locations. Being the major technicians of the career field, only the 5-skill level personnel were examined because this comparison will be the most likely to reveal technical differences in the nature of the jobs performed.

Generally, it was found that CONUS and overseas specialists perform about the same job. However, as revealed in Table 28, there are some minor differences in the tasks performed by these respondents. Referencing the lower half of Table 28, it can be seen that some electrostatic master functions are performed to a higher degree by overseas personnel. CONUS personnel, on the other hand, do more of certain bindery and printing press tasks than overseas personnel (as illustrated in the upper half of Table 28). It is noteworthy, however, that these bindery and printing press tasks, though performed by a greater proportion of CONUS as compared to overseas personnel, are still not performed by a high percentage of the CONUS specialists.

Along with the minor task differences noted between the CONUS and overseas personnel, there were also some minor background differences noted. The level of organization at which the respondents worked was one area where differences were found. Fifteen percent of the CONUS respondents reported a maga command level of organization as compared to only six percent of the overseas respondents. CONUS specialists also work in a plant level of organization more than overseas respondents with 11 percent of the CONUS respondents reporting this level and no overseas respondents report-In contrast, more overseas incumbents reported a wing level of organization with 19 percent responding as compared to only four percent of the CONUS incumbents. Work areas reported by the personnel was another slight difference between the two groups. A higher percentage of CONUS personnel (84 percent) reported a Copier Manager work area than did overseas personnel (70 percent). CONUS respondents also spent more time in the Reproduction Manager work area than overseas personnel (92 as compared to 83 percent).

Finally, some differences were also discovered in the equipment used by the specialists. Overseas personnel use more bindery machines with 67 percent of their members using the equipment compared to 51 percent of the CONUS incumber's reporting the use of this equipment. More overseas specialists also use Total Copy Systems than CONUS personnel (95 versus 84 percent). However, more CONUS personnel use single head drills (60 percent) and single sheet collators (81 percent) than overseas personnel (46 percent use the drills and 67 percent use the collators). As this comparison reveals, the differences noted in all of these areas were noticeable, but not extreme.

Consequently, it can be concluded that the differences between CONUS and overseas 703X0 personnel, as determined by a comparison of the 5-skill level incumbents in each group, are minor in nature, with the proportionately greater performance of certain electrostatic master tasks by overseas as compared to CONUS personnel being the only notable task difference. Background data also varied between groups, but no difference of substantial interest was found.

TABLE 28

TASKS BEST DISTINGUISHING DAFSC 70350 CONUS AND OVERSEAS PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		CONUS PERSONNEL (N=216)	OVERSEAS PERSONNEL (N=63)	DIFFERENCE
I275	PERFORM PADDING OPERATIONS	35	21	14
1242	ADJUST STICHERS	50	38	12
1264	OPERATE FOLDERS	13	3	10
J300	ADJUST PP PAPER CALIPERS	16	6	10
J328	PREPARE PP BLANKETS FOR MOUNTING	22	13	9
J307	ADJUST PP WATER ROLLERS	29	21	8 7 7
1240	ADJUST FOLDER ROLLERS	9	2	7
	ADJUST FOLDER DEFLECTORS	10	3	7
	OPERATE STITCHERS	52	45	7
J299	ADJUST PP INK ROLLERS	26	19	7
G179	CLEAN EMI GLASS, COPYBOARDS,			
	MIRRORS, OR LENSES	48	71	-23
G183	PREPARE OFFSET PLATES USING EMIS	47	70	-23
G168	ADJUST ELECTROSTATIC MASTER IMAGER			
	(EMI) APERTURES	47	70	-23
	ADJUST EMI EXPOSURE TIME	54	76	-22
G188	TRIM DUPLICATING MASTERS	43	65	-22
A5	DETERMINE WORK PRIORITIES	42	63	-21
G175		41	62	-21
A12	ESTABLISH PERFORMANCE STANDARDS			
	FOR SUBORDINATES	16	36	-21
	REMOVE OR REPLACE EMI BIASES	36	56	-20
G182	MAKE CORRECTIONS ON ELECTROSTATIC MASTERS	49	68	-19

#### ANALYSIS OF MAJOR COMMAND DIFFERENCES

Another dimension along which the jobs performed by individuals may vary is Major Command (MAJCOM). As a result of this, an examination of the tasks and duties performed by incumbents according to MAJCOM is necessary. Seven major commands, comprising 88 percent of the sample, were examined. These major commands were: 1) Strategic Air Command (SAC); 2) Tactical Air Command (TAC); 3) Military Airlift Command (MAC); 4) Air Training Command (ATC); 5) United States Air Forces Europe (USAFE); 6) Pacific Air Forces (PACAF); and 7) Air Force Systems Command (AFSC).

The four tables at the end of this section provide job and background information for the MAJCOM groups. Table 29 gves a listing of each MAJCOM and the percentage of time members report spending on each duty; Table 30 provides general background information for the major commands; and Table 31 lists the job satisfaction indices for the groups. Table 32 shows the distribution of each command across the various job groups identified in the CAREER LADDER STRUCTURE.

Overall, there were only minor differences between the major commands in terms of the time spent on duties and the tasks performed. The largest difference was with AFSC personnel. These personnel spent the greatest amount of time of any major command in the area of performing micrographics functions. Sixteen percent of their job time was spent in this area as compared to no more than five percent for the other major commands. AFSC personnel compensated by spending the least time of any major command performing electrostatic master functions.

As for background differences, MAC had the largest concentration of female respondents with 32 percent and USAFE had the smallest concentration with only 10 percent. USAFE had the broadest job, with members reporting performance of an average of 104 tasks. Most major commands had a majority of respondents indicating that they rotate among the various organizational functions; however, AFSC was an exception, with only 23 percent of these members indicating such rotation. Another interesting fact about AFSC is that none of these respondents reported completion of the Reprographics course at Ft Belvoir. The major command with the largest percentage of these graduates was ATC with 16 percent of their members reporting completion of the course.

In terms of job satisfaction, only 59 percent of SAC respondents found their job interesting; this was the lowest of any major command. AFSC personnel indicated the least satisfaction with training, with only 59 percent of these incumbents indicating feelings that their job utilizes their training well. AFSC also had the lowest reenlistment intentions, with only 50 percent of these individuals indicating plans to reenlist. ATC had the highest reenlistment intentions; 66 percent of these respondents reported plans to reenlist. No other significant job satisfaction differences were noted for the major commands.

TABLE 29

RELATIVE PERCENT TIME SPENT ON DUTIES BY 703X0 MAJOR COMMAND GROUPS

DU	TY	SAC (N=135)	TAC (N=74)	MAC (N=68)	ATC (N=64)	USAFE (N=61)	PACAF (N=24)	AFSC (N=22)
A	ORGANIZING AND PLANNING	6	5	8	8	8	11	7
В	DIRECTING AND IMPLEMENTING	8	8	9	10	10	12	9
C	EVALUATING AND INSPECTING	5	7	6	6	6	11	8
D	TRAINING	2	3	3	3	3	3	2
E	FERFORMING ADMINISTRATIVE AND SUPPLY							
	FUNCTIONS	5	5	6	4	7	7	5
F	PERFORMING COPY MANAGEMENT FUNCTIONS	5	3	2	2	6	9	5
Ğ	PERFORMING ELECTROSTATIC MASTER							
	FUNCTIONS	10	7	9	8	10	10	3
Н	OPERATING AND MAINTAINING OFFSET							
	DUPLICATORS	24	22	27	30	26	23	22
I	PERFORMING BINDERY FUNCTIONS	16	15	13	14	13	12	13
J	PERFORMING PRINTING PRESS FUNCTIONS	9	13	9	8	8	1	4
K	PREPARING LINE OR HALFTONE NEGATIVES							
	AND POSITIVES	4	6	2	4	1	1	4
L	PERFORMING LAYOUT AND STRIPPING							
	FUNCTIONS	2	3	1	2	*	*	1
М	PERFORMING PLATEROOM FUNCTIONS	2	1	¥	1	*	*	1
N	PERFORMING MICROGRAPHIC FUNCTIONS	2	2	5	*	×	×	16

<sup>\*</sup>DENOTES LESS THAN ONE PERCENT

TABLE 30

BACKGROUND INFORMATION ACCORDING TO MAJOR COMMANDS

	SAC	TAC	MAC	ATC	USAFE	PACAF	AFSC
	135 27% 5%	74 15% 5%		64 12% 2%	61 12 <b>%</b> 100 <b>%</b>	24 5% 100%	22 4% 0%
DAFSC DISTRIBUTION:							
70330 70350 70370 70390	16% 56% 26% 2%	16% 57% 26% 1%	15% 63% 22% 0%	17% 50% 30% 3%	10% 54% 36% 0%	13% 54% 25% 8%	18% 50% 27% 5%
AVERAGE GRADE: AVERAGE TIME IN CAREER FIELD	4.7	4.5	4.3	4.6	4.9	4.9	5.0
(MONTHS TICF):	86	79	82	87	91	83	86
AVERAGE TIME IN SERVICE (MONTHS TAFMS):	104	102	96	109	117	110	115
AVERAGE NUMBER OF TASKS							
					104		
PERCENT IN FIRST ENLISTMENT: PERCENT SUPERVISING:	36% 38%	45% 31%	31%	38% 28%	43%	29% 38%	14%
PERCENT COMPLETING REPROGRAPHICS							
COURSE AT FT BELVOIR:	<b>6%</b>	5%	13%	16%	10%	8%	0%
PERCENT OF FEMALE MEMBERS:	19%	19%	32%	19%	10%	17%	18%
PERCENT ROTATING AMONG ORGANIZATIONAL FUNCTIONS:	70%	78%	60%	58%	67%	54%	23%

TABLE 31

JOB SATISFACTION INFORMATION ACCORDING TO MAJOR COMMAND (PERCENT MEMBERS RESPONDING)

	SAC	TAC	MAC	ATC	USAFE	PACAF	AFSC
I FIND MY JOB:							
DULL	14	12	16	9	10	21	9
SO-SO Interesting	26 59	23 65	13 71	16 73	21 62	17 62	1 <b>8</b> 73
MY JOB UTILIZES MY TALENTS:							
NOT AT ALL TO VERY LITTLE	22	27	25	19	30	21	23
FAIRLY WELL OR BETTER	76	73	74	78	66	79	77
MY JOB UTILIZES MY TRAINING:							
NOT AT ALL TO VERY LITTLE	14	15	19	9	16	25	41
FAIRLY WELL OR BETTER	84	84	81	89	82	75	59
REENLISTMENT INTENTIONS:							
PLAN TO RETIRE	15	11	12	11	13	8	0
PLAN NOT TO REENLIST PLAN TO REENLIST	30 54	34 54	35 53	20 66	25 61	33 58	46 50

NOTE: COLUMNS MAY NOT ADD UP TO 100 PERCENT DUE TO "NO RESPONSE"

TABLE 32

NUMBER OF MEMBERS OF EACH MAJOR COMMAND WITHIN EACH JOB GROUP

	SAC (N=135)	TAC (N=74)	MAC (N=68)	ATC (N=64)	USAFE (N=61)	PACAF (N=24)	AFSC (N=22)
SUPERVISORS	18	7	11	10	6	∞	7
LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL	i 1	7	-	7	0	0	2
OFFSET DUPLICATOR AND PRINTING PRESS PERSONNEL	7	10	6	2	9	0	2
OFFSET DUPLICATOR PERSONNEL	23	11	12	19	11	9	8
OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER							
PERSONNEL	10	7	2	က	7	7	1
OFFSET DUPLICATOR TECHNICIAN-SUPERVISOR PERSONNEL	12	∞	∞	3	13	2	2
PRINTING PRESS, OFFSET DUPLICATOR, AND BINDERY PERSONNEL	19	12	က	က	7	0	0
PRINTING PRESS AND BINDERY TRAINERS	7	1	0	0	2	0	0
PRINTING PRESS PERSONNEL	က	7	1	c	-	0	0
BINDERY PERSONNEL	7	7	_	9	7	-	
PRODUCTION CONTROL PERSONNEL	2	0	_	3	1	0	0
MICROGRAPHICS PERSONNEL	ო	-	7	0	0	0	7
OTHER	16	7	12	2	ĸ	2	~

#### REPROGRAPHICS COURSE GRADUATES

Thirty-eight of the respondents in the survey reported having completed the Reprographics course offered at Ft Belvoir, Virginia. Since the technical school is a recent addition to the career field (established December 1979), the information provided by these graduates could provide useful early feedback for the school.

As displayed in Table 33, the graduates are a fairly heterogeneous group, with no extensive core of tasks performed by all members. This indicates that the course graduates are performing the spectrum of technical jobs in the career ladder rather than specializing in a certain area. This is further verified in the career ladder structure, where course graduates were found in most of the job groups.

Table 34 gives background and job satisfaction data for this group. Printing and duplicating were the most common functional areas reported by graduates. Fifty-three percent of the group indicated that they rotated among the various organizational functions. Probably the most surprising finding is the low reenlistment intentions of these personnel; only 40 percent of the group plan to reenlist. Since the average time in service for this group is only 49 months, many of these respondents are first enlistment personnel. This could explain the low reenlistment intentions-which are typical of first enlistment personnel. Job satisfaction, however, was not low, with 71 percent of the group finding their job interesting.

Overall, graduates from the recently established Reprographics course at Ft Belvoir who responded to this survey perform a variety of jobs covering the spectrum of reprographics duties. Printing and duplicating seem to be the main functional areas for these incumbents. The graduates report high job satisfaction, but indicate reenlistment intentions typical for most first enlistment personnel in the Air Force.

TABLE 33

REPRESENTATIVE DUTIES AND TASKS FOR REPROGRAPHICS COURSE GRADUATES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	43
I	PERFORMING BINDERY FUNCTIONS	16
J	PERFORMING PRINTING PRESS FUNCTIONS	13
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	7
В	DIRECTING AND IMPLEMENTING	3
N	PERFORMING MICROGRAPHIC FUNCTIONS	3

TASKS		PERCENT MEMBERS PERFORMING
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	76
H197	ADJUST OD PILE HEIGHT CONTROLS	76
H229	SET OD COUNTERS	71
H190	ADJUST OD FEEDING UNIT BLOWERS	71
H195	ADJUST OD INK FLOW	68
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	68
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	68
H228	RUN MASTERS THROUGH MASTER CONVERTERS	66
H205	MIX OD FOUNTAIN SOLUTIONS	66
H226	REPLENISH OD INK FOUNTAINS	66
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	66
H231	SET OD RECEIVING TRAY JOGGERS	63
H198	ADJUST OD ROLLERS	63
H204	LUBRICATE ODs	61

## TABLE 34

# BACKGROUND AND JOB SATISFACTION INFORMATION FOR REPROGRAPHICS COURSE GRADUATES

NUMBER IN GROUP:	38
PERCENT OF SAMPLE:	7%
PERCENT LOCATED OVERSEAS:	24%
AVERAGE GRADE:	E-3
PERCENT FEMALE MEMBERS:	40%
PERCENT SUPERVISING OTHERS:	13%
AVERAGE TIME IN SERVICE (TAFMS IN MONTHS):	49
FUNCTIONAL AREA MAJORITY OF TIME SPENT:	
PRINTING	42%
DUPLICATING	40%
PHOTOLITHOGRAPHY	5 <b>%</b>
BINDING	8%
MICROGRAPHICS	3%
PERCENT ROTATING AMONG ORGANIZATIONAL FUNCTIONS:	53%
COMMON JOB TITLES:	
DUPLICATOR OPERATOR	50%
PRESS OPERATOR	66%
AVERAGE NUMBER OF TASKS PERFORMED:	58
AVERAGE TASK DIFFICULTY PER UNIT TIME SPENT (ATDPUTS):	4.3
JOB DIFFICULTY INDEX (JDI):	9.6
PERCENT FINDING JOB INTERESTING:	71%
PERCENT PERCEIVING GOOD UTILIZATION OF TALENTS:	74%
PERCENT PERCEIVING GOOD UTILIZATION OF TRAINING:	79%
PERCENT PLANNING TO REENLIST:	40%

#### COMPARISON TO PREVIOUS SURVEY

A comparison of the career ladder structures of the previous report with the present report reveal many similarities. The previous report was a combined report of the previous 711X0 Duplicating, 713X0 Printing-Binding, and 713X1 Photolithography career fields, dated 30 April 1975 (AFPT 90-711-713-158). The present career ladder structure has some of the same job groups as the previous structure, concentrating in the areas of printing, binding, duplicating, and photolithography. However, the present career ladder structure also has certain job groups which combine the various jobs -indicating fusion of formerly independent reprographics functions into single jobs.

Table 35 below shows the corresponding job types between the two reports.

#### TABLE 35

1975 JOB GROUPS	1981 JOB GROUPS
PRINTING-DUPLICATING CLUSTER	OFFSET DUPLICATOR AND PRINTING PRESS CLUSTER
DUPLICATING CLUSTER	OFFSET DUPLICATOR PERSONNEL CLUSTER
BINDERY SPECIALIST IJT	BINDERY PERSONNEL CLUSTER
SUPERVISION CLUSTER	SUPERVISORS CLUSTER
PHOTOLITHOGRAPHY CLUSTER	LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL CLUSTER

Although these jobs do not directly correspond to one another, in general the major emphasis of these groups are in the same areas.

Some of the unique job groups in the 1981 report which illustrate the combination of these functions are the Offset Duplicator, Bindery, and Electrostatic Master Personnel independent job type (IJT), and the Printing Press, Offset Duplicator, and Bindery Personnel IJT. Other groups identified in the present report which were not in the 1975 report were the Micrographics personnel IJT and the Production Controllers IJT.

Most other sections of the previous 1975 report did not directly correspond to the 703X0 report, since the previous report was broken down into component functions. Consequently the major area of comparison was the career ladder structure. Generally, the present report has a few more job groups which perform a combination of the various reprographics functions or perform newly identified responsibilities.

#### ANALYSIS OF WRITE-IN COMMENTS

Job inventories include a section for any comments respondents may have concerning the career field. An analysis of these comments is sometimes helpful in finding areas of discontent in the field. Many times, incumbents in the field also have constructive suggestions which they feel would improve their career ladder.

Generally, there were not a lot of common comments on the 703X0 inventory. The few similar comments indicated dissatisfaction with the integration of the three previous AFSCs. Some members report having to train incoming airmen in reprographics areas in which they themselves have no experience. A few respondents also indicated a limited job with little rotation among the various reprographics functions. Consequently, comments indicate that all personnel are not yet totally integrated into the broadened Reprographics job. The most widely received comment concerned the need for a mandatory category A technical school. Some people in the field feel that the direct duty assignment is inadequate for the job required of these individuals. Mandatory training would enable new Reprographics personnel to gain training in all aspects of the job prior to their first assignment.

Some examples of write-in comments are:

"I feel that since the printing fields have been merged within the Air Force, there is a great need for formal training (i.e., tech school) other than just OJT and CDC courses."

"Personnel assigned to this career field should be trained through a tech school versus direct duty assignments."

"I spent all my time in micrographics before, until I applied enough pressure to get moved."

Overall, the comments supplied indicate that some respondents have problems with the fusion of the three previously separate jobs of printing-binding, duplicating, and photolithography. However, these problems could be expected as part of the transition from three previously separate specialties into one career field. Respondents indicate that in their opinion the best way to alleviate this problem would be to send trainees through the Reprographics course in order for them to be trained properly in all aspects of the reprographics job. These individuals would then be prepared to perform any reprographics function needed and they would not have to rely on training by personnel who may have never worked with the equipment before.

#### IMPLICATIONS

The 703X0 Reprographics career ladder is somewhat heterogeneous, with jobs differing on the basis of the reprographics functions performed. These functions are duplicating, printing, binding, photolithography, and micrographics. Typically, individuals reported performing a job concentrating in one or more of these areas. There was no reliable breakout of job groups according to the previous AFSC held by the individuals.

The micrographics function tended to be the most specialized, with only one group performing it to a significant degree. This group concentrated on the micrographics function to the exclusion of the other reprographics duties. Considering that the micrographics function is a recent introduction into the career field, combined with the fact that all members of this highly specialized group had either 3- or 5-skill levels, this is not surprising. Most likely, the more recent incumbents into the field were trained in this area and perform it exclusively due to the fact that personnel who were already in the field when the micrographics function was introduced have no training in the area. Consequently, it is expected that the micrographics function will probably fuse more completely with the other reprographics functions with time.

Graduates from the Reprographics course at Ft Belvoir, VA seem to be performing a wide range of the reprographics jobs, as indicated by the fact that the members did not group together based on task performance. The operation and maintenance of offset duplicators consumed the greatest amount of their time; however, there were only 25 common tasks performed by over 50 percent of the graduates. This indicates the heterogeneous nature of the group. Over 70 percent of the graduates found their job interesting and their talents and training well utilized; however, only 40 percent of the group indicate reenlistment intentions. One possible reason for this could be the fact that many members are in their first enlistment.

APPENDIX A

# SUPERVISORS CLUSTER (GRP021) (N=75)

## RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
В	DIRECTING AND IMPLEMENTING	24
A	ORGANIZING AND PLANNING	19
С	EVALUATING AND INSPECTING	18
F	PERFORMING COPY MANAGEMENT FUNCTIONS	12
E	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	12
D	TRAINING	8

TASK		MEMBERS PERFORMING
	DETERMINE WORK PRIORITIES	83
A11	ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS, OR STANDARD	_
	OPERATING PROCEDURES	81
	WRITE CORRESPONDENCE	80
B50	REVIEW PRINTING REQUESTS	80
A4	DETERMINE REQUIREMENTS FOR SPACE, EQUIPMENT, PERSONNEL, OR SUPPLIES	79
A3	CALCULATE VALUE OF EQUIPMENT	79
B33	DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION	77
C75	EVALUATE EQUIPMENT BEFORE PURCHASE OR RENTAL	77
B32	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	77
A8	DEVELOP WORK METHODS OR PROCEDURES	76
A12	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	76
C9 <b>0</b>	PREPARE APRS	76
C62	ANALYZE WORKLOAD REQUIREMENTS	72
A27	SCHEDULE LEAVES OK PASSES	72
B44	INTERPRET FOLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	71
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	71
A14	ESTABLISH PRODUCTION CONTROLS	68
A i	DEVELOP STANDARDS FOR PRINTED MATERIALS	68
F151	ADVISE USERS ON COPYING PROCEDURES	67
B49	PREPARE REQUISITORS FOR SUPPLIES OR EQUIPMENT	67
Có l	ACCOUNT FOR MATERIALS EXPENDED	65
£132	MAINTAIN LISTS OF EQUIPMENT	65

# LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL CLUSTER (GRP052) (N=28)

## RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
K	PREPARING LINE OR HALFTONE NEGATIVES AND POSITIVES	39
L	PERFORMING LAYOUT AND STRIPPING FUNCTIONS	19
I	PERFORMING BINDERY FUNCTIONS	8
M	PERFORMING PLATEROOM FUNCTIONS	7
H	OPERATING AND MAINTAINING OFFSET DUPLICATORS	6
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	4
С	EVALUATING AND INSPECTING	4
В	DIRECTING AND IMPLEMENTING	3

TASK		PERCENT MEMBERS PERFORMING
K401	SET CAMERA EXPOSURE TIMES	96
	ADJUST CAMERA LIGHTS	96
K354	ADJUST COPYBOARDS	93
K355	ADJUST LENSBOARD	93
K376	FLASH FILM FOR SHADOW DOTS	93
-	SET CAMERA APERTURES	89
	DETERMINE JOB SPECIFICATIONS FOR PREPARING NEGATIVES OR POSITIVES	89
	PREPARE DEVELOPERS OR FIXERS	89
K364	CLEAN COPYBOARD GLASS	89
<b>K</b> 371		89
L411	INSPECT NEGATIVES	86
	COMPUTE COPYBOARD SETTINGS	86
	COMPUTE LENS SETTINGS	<b>8</b> 6
L406	CLEAN GLASS ON LIGHT TABLES	<b>8</b> 6
M428	CLEAN GLASS ON PLATEMAKERS	86
	OPAQUE OR MASK UNWANTED AREAS OF NEGATIVES OR POSITIVES	<b>8</b> 2
	ASSEMBLE FLATS	<b>8</b> 2
L414	POSITION AND TAPE NEGATIVES ON LAYOUT SHEETS	82
	TRIM NEGATIVES	82
	CENTER IMAGES ON GROUND GLASS	82
K362		82
L409	CORRECT IMPERFECTIONS IN NEGATIVES	79

## OFFSET DUPLICATOR AND PRINTING PRESS PERSONNEL CLUSTER (GRP096) (N=43)

### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	36
J	PERFORMING PRINTING PRESS FUNCTIONS	33
I	PERFORMING BINDERY FUNCTIONS	14
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	9
В	DIRECTING AND IMPLEMENTING	1

TASK		PERCENT MEMBERS PERFORMING
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	100
H195	ADJUST OD INK FLOW	100
H205	MIX OD FOUNTAIN SOLUTIONS	98
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	95
H212	REMOVE OD MASTERS AND CLEAN BLANKETS	95
H226	REPLENISH OD INK FOUNTAINS	93
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	93
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	93
H229	SET OD COUNTERS	91
H228	RUN MASTERS THROUGH MASTER CONVERTERS	91
H197	ADJUST OD PILE HEIGHT CONTROLS	91
H190	ADJUST OD FEEDING UNIT BLOWERS	91
J311	CLEAN PP IMPRESSION CYLINDERS	88
J305	ADJUST PP VACUUM OR AIR FLOW	88
H203	LOAD OD FEEDER SYSTEMS	84
J310	CLEAN PP EXTERIORS	84
J340	REPLENISH PP INK FOUNTAINS	81
H201	CLEAN OD FEEDER ROLLERS	81
H230	SET OD MULTISHEET DETECTORS	79
H191	ADJUST OD GUIDES OR CYLINDERS	79
J348	SET PP COUNTERS	77
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	77
1262	OPERATE CUTTERS	77
1261	OPERATE COLLATORS	77
J309	ATTACH PP PLATES TO PLATE CYLINDERS	77

## OFFSET DUPLICATOR PERSONNEL CLUSTER (GRP106) (N=99)

### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	65
I	PERFORMING BINDERY FUNCTIONS	15
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	13
E	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	2

TASK		PERCENT MEMBERS PERFORMING
H195	ADJUST OD INK FLOW	100
H289		98
H229	SET OD COUNTERS	97
H226	REPLENISH OD INK FOUNTAINS	97
H228	RUN MASTERS THROUGH MASTER CONVERTERS	96
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	95
H212	REMOVE OD MASTERS AND CLEAN BLANKETS	94
H205	MIX OD FOUNTAIN SOLUTIONS	94
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	93
H190	ADJUST OD FEEDING UNIT BLOWERS	92
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	90
H203	LOAD OD FEEDER SYSTEMS	89
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	87
H230	SET OD MULTISHEET DETECTORS	85
H201	CLEAN OD FEEDER ROLLERS	84
H198	ADJUST OD ROLLERS	81
H214	REMOVE OR REPLACE OD DAMPENER COVERS	80
H202	CLEAN ODS OTHER THAN AIR FILTERS OR FEEDER ROLLERS	78
H204	LUBRICATE ODs	76
H196	ADJUST OD PAPER BUCKLES	76

# OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER PERSONNEL INDEPENDENT JOB TYPE (GRP105) (N=39)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	33
I	PERFORMING BINDERY FUNCTIONS	21
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	15
F	PERFORMING COPY MANAGEMENT FUNCTIONS	7
В	DIRECTING AND IMPLEMENTING	6
Ę.	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	5
Α	ORGANIZING AND PLANNING	4

TASKS	3	PERCENT MEMBERS PERFORMING
H228	RUN MASTERS THROUGH MASTER CONVERTERS	97
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	97
H205	MIX OD FOUNTAIN SOLUTIONS	97
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	97
H197	ADJUST OD PILE HEIGHT CONTROLS	97
H191	ADJUST OD GUIDES OR CYLINDERS	97
H199	ADJUST PRESSURE BETWEEN MASTER CYLINDERS AND BLANKET CYLINDERS	97
1261	OPERATE COLLATORS	95
H229	SET OD COUNTERS	95
G170	ADJUST EMI EXPOSURE TIME	95
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	95
H195	ADJUST OD INK FLOW	95
H207	MOUNT OU BLANKETS ON BLANKET CYLINDERS	95
H190	ADJUST OD FEEDING UNIT BLOWERS	95
1263	OPERATE DRILLS	92
1245	COLLATE PAPER BY HAND	92
1262	OPERATE CUTTERS	90
1284		90
G176		90
	CLEAN EMI GLASS, COPY BOARDS, MIRRORS, OR LENSES	90
	COMPUTE AMOUNT OF ENLARGEMENT OR REDUCTION OF IMAGES	87
G182	MAKE CORRECTIONS ON ELECTROSTATIC MASTERS	85

## OFFSET DUPLICATOR TECHNICIAN-SUPERVISOR PERSONNEL CLUSTER (GRP101) (N=55)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	17
В	DIRECTING AND IMPLEMENTING	16
I	PERFORMING BINDERY FUNCTIONS	12
С	EVALUATING AND INSPECTING	12
A	ORGANIZING AND PLANNING	12
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	9
E	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	9
F	PERFORMING COPY MANAGEMENT FUNCTIONS	6
D	TRAINING	4

TASK		PERCENT MEMBERS PERFORMING
<b>A</b> 5	DETERMINE WORK PRIORITIES	95
B33	DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION	95
B50	REVIEW PRINTING REQUESTS	93
E133	MAINTAIN LOGS OF JOBS PROCESSED	93
G170	ADJUST EMI EXPOSURE TIME	93
G180	COMPUTE AMOUNT OF ENLARGEMENT OR REDUCTION OF IMAGES	93
B35	DIRECT EQUIPMENT MAINTENANCE	91
G176	ADJUST POSITION OF IMAGES ON ELECTROSTATIC MASTERS	91
	ADJUST OD INK FLOW	91
	CLEAN EMI GLASS, COPYBOARDS, MIRRORS, OR LENSES	91
1261	OPERATE COLLATORS	89
B5 1		89
	ADJUST ELECTROSTATIC MASTER IMAGER (EMI) APERTURES	89
	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	89
		89
	MOUNT OD MASTERS ON MASTER CYLINDERS	89
H197	ADJUST OD PILE HEIGHT CONTROLS	89
H204	LUBRICATE ODS	89
G175	ADJUST EMI TONER FEED	89
H230	SET OD MULTISHEET DETECTORS	89
B52	SCHEDULE WORK ASSIGNMENTS	87
A8	DEVELOP WORK METHODS OR PROCEDURES	87

# PRINTING PRESS, OFFSET DUPLICATOR, AND BINDERY PERSONNEL INDEPENDENT JOB TYPE (GRP114) (N=55)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
J	PERFORMING PRINTING PRESS FUNCTIONS	27
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	22
I	PERFORMING BINDERY FUNCTIONS	15
G	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	9
В	DIRECTING AND IMPLEMENTING	5
C	EVALUATING AND INSPECTING	4
Α	ORGANIZING AND PLANNING	4

TASK		PERCENT MEMBERS PERFORMING
1284	STAPLE PAPER	98
	ADJUST 1MAGE ON OFFSET DUPLICATORS (OD)	98
	CLEAN PP IMPRESSION CYLINDERS	98
H190	ADJUST OD FEEDING UNIT BLOWERS	98
J305		98
H197	ADJUST OD PILE HEIGHT CONTROLS	98
J348		96
H229	SET OD COUNTERS	96
H191	ADJUST OD GUIDES OR CYLINDERS	96
G170	ADJUST EMI EXPOSURE TIME	96
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	96
H205	MIX OD FOUNTAIN SOLUTIONS	95
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	95
J342	REPLENISH PP WATER FOUNTAINS	95
H195	ADJUST OD INK FLOW	95
G176	ADJUST POSITION OF IMAGES ON ELECTROSTATIC MASTERS	95
J349	SET PP INK OR WATER CONTROLS	95
H204	LUBRICATE ODs	95
H198	ADJUST OD ROLLERS	95
J319	INSPECT PRINTING PRESSES FOR WORN OR MALFUNCTIONING PARTS	95
J307	ADJUST PP WATER ROLLERS	95
H231	SET OD RECEIVING TRAY JOGGERS	95
J299	ADJUST PP INK ROLLERS	95

## PRINTING PRESS AND BINDERY TRAINERS INDEPENDENT JOB TYPE (GRP077) (N=7)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
J	PERFORMING PRINTING PRESS FUNCTIONS	16
I	PERFORMING BINDERY FUNCTIONS	14
D	TRAINING	11
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	9
С	EVALUATING AND INSPECTING	8
В	DIRECTING AND IMPLEMENTING	7
Α	ORGANIZING AND PLANNING	6
E	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	5
K	PREPARING LINE OR HALFTONE NEGATIVES OR POSITIVES	5

TASK		MEMBERS PERFORMING
B58	SUPERVISE REPROGRAPHIC TECHNICIANS (AFSC 70370)	100
D124	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	100
C93	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS	100
D116	MAINTAIN STUDY REFERENCE FILES	100
D112	ESTABLISH UNIT TRAINING STANDARDS	100
D113	EVALUATE OJT TRAINEES	100
1246	COLLATE PAPER USING ROTATING TABLES	100
1277	PUNCH HOLES IN PAPER USING MANUAL PUNCHERS	100
D125	WRITE JUSTIFICATIONS FOR TRAINING FACILITIES, EQUIPMENT,	
	PUBLICATIONS, OR MATERIALS	100
1274	PACK PRINTED MATERIALS MANUALLY	100
D106	DEVELOP LESSON PLANS	100
D115	EVALUATE TRAINING METHODS, TECHNIQUES, OR PROGRAMS	100
C85	EVALUATE WORK REQUESTS FOR COMPLIANCE WITH PUBLIC LAW	100
E141	MAKE ENTRIES ON CONSOL. DUPL. CTR. AND FACS. REPORT OF JOBS	
	PROD. WHICH EXCEED JCP DUPL. LIMIT. FORMS (AF FORM 337)	100
E143	MAKE ENTRIES ON CUSTODIAN REQUEST/RECEIPT FORMS (AF FORM 601B)	100
H220	REMOVE OR REPLACE OD MULTISHEET DETECTORS	100
H223	REMOVE OR REPLACE OD SOLENOIDS	100
1243	BREAK DOWN BACK GAUGES ON CUTTER	100
B43	INITIATE PERSONNEL ACTION REQUESTS	100

### PRINTING PRESS PERSONNEL CLUSTER (GRP044) (N=13)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
J	PERFORMING PRINTING PRESS FUNCTIONS	60
I	PERFORMING BINDERY FUNCTIONS	16
Н	OPERATING AND MAINTAINING OFFSET DUPLICATORS	11
Ğ	PERFORMING ELECTROSTATIC MASTER FUNCTIONS	5
	REPRESENTATIVE TASKS	
TASK		PERCENT MEMBERS PERFORMING
J310	CLEAN PP EXTERIORS	100
J305	ADJUST PP VACUUM OR AIR FLOW	100
J320	LOAD PP FEEDER SYSTEMS	92
J301	ADJUST PP PILE HEIGHT INDICATORS	92
J298	ADJUST PP IMPRESSION CYLINDER PRESSURE	92
J307	ADJUST PP WATER ROLLERS	92
J306	ADJUST PP WATER FOUNTAIN STOPS	92
J311	CLEAN PP IMPRESSION CYLINDERS	85
J309	ATTACH PP PLATES TO PLATE CYLINDERS	85
J329	PREPARE PP PLATES FOR MOUNTING	85
1299	ADJUST PP INK ROLLERS	85
J337	REMOVE OR REPLACE PP WATER ROLLERS	85
J334	REMOVE OR REPLACE PP INK OR WATER ROLLERS	85
J348	SET PP COUNTERS	77
J316	COVER PP DAMPENING ROLLERS	77 77
J303	ADJUST PP REGISTRATION POSITION	77
J304	ADJUST PP SEPARATOR FINGERS	77
J296 J328	ADJUST PP GRIPPER FINGERS PREPARE PP BLANKETS FOR MOUNTING	77
7340	REPLENISH PP INK FOUNTAINS	69
1284	STAPLE PAPER	69
	17 81 18 8117 8 188 1283	• ,

## BINDERY PERSONNEL CLUSTER (GRP016) • (N=23)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

DUTY	TITLE	RELATIVE PERCENT TIME SPENT
I	PERFORMING BINDERY FUNCTIONS	76
В	DIRECTING AND IMPLEMENTING	6
Α	ORGANIZING AND PLANNING	5
H	OPERATING AND MAINTAINING OFFSET DUPLICATORS	5

TASK		PERCENT MEMBERS PERFORMING
1263	OPERATE DRILLS	87
I2 <b>6</b> 2	OPERATE CUTTERS	87
I250	INSPECT SEQUENCING OF PAGES	83
1271	OPERATE STITCHERS	83
I245	COLLATE PAPER BY HAND	83
I261	OPERATE COLLATORS	78
I284	STAPLE PAPER	74
I244	CLEAN BINDERY EQUIPMENT	70
I285	TRIM PAPER	65
1251	INSTALL DRILL BITS OR SPINDLES	65
1248	HAND MARRY SETS	61
1242	ADJUST STITCHERS	61
I236	ADJUST DRILLS	52
I255	LUBRICATE DRILLS	48
I280	REMOVE OR REPLACE CUTTING STICKS	48
1274	PACK PRINTED MATERIALS MANUALLY	43
I254	LUBRICATE CUTTERS	43
	INSPECT CUTTERS FOR ACCURACY	43
1282	SELECT WIRE AND LOAD SPOOLS	43
1253	LABEL. ADDRESS. OR MAIL MATERIALS	39

### PRODUCTION CONTROL PERSONNEL INDEPENDENT JOB TYPE (GRP071) (N=7)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

RELATIVE PERCENT

43

43

29

29

DUTY	TITLE	TIME SPENT
E.	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	31
В	DIRECTING AND IMPLEMENTING	30
A	ORGANIZING AND PLANNING	25
Ċ	EVALUATING AND INSPECTING	10
	REPRESENTATIVE TASKS	
		PERCENT MEMBERS
TASK		PERFORMING
B50	REVIEW PRINTING REQUESTS	100
<b>A</b> 5	DETERMINE WORK PRIORITIES	86
E133	MAINTAIN LOGS OF JOBS PROCESSED	86
E128	COLLECT ITEMS TO BE DUPLICATED OR PRINTED	57
E134	MAINTAIN REPORTABLE JOB LOGS	57
C85	EVALUATE WORK REQUESTS FOR COMPLIANCE WITH PUBLIC LAW	57

ESTABLISH PRODUCTION CONTROLS

WRITE CORRESPONDENCE

EDIT COMPLETED WORK FOR COMPLIANCE WITH WORK REQUESTS

DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION

A14

065

B33

B60

### MICROGRAPHICS PERSONNEL INDEPENDENT JOB TYPE (GRP018) (N=13)

#### RELATIVE PERCENT TIME SPENT ON DUTIES

		RELA?	
DUTY	TITLE	TIME	SPENT
N	PERFORMING MICROGRAPHIC FUNCTIONS		79
K	PREPARING LINE OR HALFTONE NEGATIVES AND POSITIVES		4
E	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS		3
С	EVALUATING AND INSPECTING		3

TASK		PERCENT MEMBERS PERFORMING
N457	OPERATE CAMERAS	100
N481	THREAD FILMS INTO ME	92
N448	FEED ORGINALS THROUGH ME	85
N462	PERFORM DENSITY STEP TESTS	85
N463	PERFORM OPERATOR MAINTENANCE ON MICROGRAPHIC EQUIPMENT	77
N456		77
N483	UNLOAD DUPLICATE FILMS FROM ME	77
N451	LOAD BULK FILMS INTO ME	77
N454	MIX MICROGRAPHIC CHEMICALS	77
N458	OPERATE MICROGRAPHIC EQUIPMENT OTHER THAN CAMERAS OR	
	DIAZO DUPLICATORS	77
N484	UNLOAD ORIGINAL FILMS (DUPLICATED) FROM ME	77
N461	PACKAGE FILMS	77
N472	SET COUNTERS	77
N447	DEVELOP EXPOSED FILM	69
N475	SET LIGHTING INTENSITY	69
N445	ADJUST MICROGRAPHIC EQUIPMENT (ME)	69
N464	PROCESS AND EXAMINE CONTROL STRIPS	62
N452	LOAD DUPLICATING FILMS INTO ME	62
N469	SELECT MICROGRAPHIC CAMERAS	62
N459	OPERATE ROLL DIAZO DUPLICATORS	54
N446	CUT FICHE	54

#### SUPERVISORS CLUSTER

### EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
ELECTROSTATIC COPIERS/PLATEMAKERS	40

TABLE A14

## LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL CLUSTER EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
EQUITIEN.	OSTNO
LAYOUT TABLES	86
FLIPTOP PLATE MAKERS	79
GREY HALFTONE CONTACT SCREENS	71
SAFE LIGHTS	68
STRIPPING TABLES	68
ELECTROSTATIC COPIERS/PLATEMAKERS	64
VACUUM FRAMES	61
FILM DEVELOPING SINKS	61
MAGENTA HALFTONE CONTACT SCREENS	57
PLATE DEVELOPING SINKS	54
AUTOMATIC FILM PROCESSORS	50
CONTACT PRINTERS	46
GALLERY CAMERAS	46
RUB UP TABLES	39
FINISHING TABLES	39
LINEUP AND REGISTER TABLES	39
BINDING MACHINES	36
FLOURESCENT LAMPS	36
WET PROCESS PLATEMAKERS	36
ELECTRIC STAPLERS	32
MANUAL PAPER CUTTERS	32
PLATEMAKING CAMERAS	32

TABLE A15

# OFFSET DUPLICATOR AND PRINTING PRESS PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
ELECTROSTATIC COPIER/PLATEMAKERS	74
ELECTRIC STAPLERS	58
SINGLE HEAD DRILLS	56
MANUAL PAPERCUTTERS	51
STATION COLLATORS	49
PLATEMAKING CAMERAS	47
COLLATING CABINETS	44
PUNCHING MACHINES	42
BINDING MACHINES	40
SADDLE STITCHERS	35
MULTIPLE HEAD DRILLS	33

# OFFSET DUPLICATOR PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
ELECTROSTATIC COPIERS/PLATEMAKERS	78%
PAPER CUTTERS	57%
ELECTRIC STAPLERS	47%
BINDING MACHINES	42%
SINGLE HEAD DRILLS	37%
PADDING RACKS	31%
PLATEMAKING CAMERAS	30%

TABLE A17

OFFSET DUPLICATOR, BINDERY, AND ELECTROSTATIC MASTER PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUI PMENT	PERCENT MEMBERS USING
ELECTROSTATIC COPIERS/PLATEMAKERS	92%
MANUAL PAPER CUTTERS	69%
SINGLE HEAD DRILLS	59%
BINDING MACHINES	56%
STATION COLLATORS	54%
ELECTRIC STAPLERS	51%
SADDLE STITCHERS	51%
PUNCHING MACHINES	49%
SIDE STICHERS	44%
SINGLE SHEET COLLATORS	39%
PLATEMAKING CAMERAS	33 <b>%</b>
PADDING RACKS	31%
POWERED PAPER CUTTERS	31%
COLLATING CABINETS	31%

## OFFSET DUPLICATOR TECHNICIAN-SUPERVISOR PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
ELECTROSTATIC COPIERS/PLATEMAKERS	89%
SINGLE HEAD DRILLS	78%
MANUAL PAPER CUTTERS	71%
STATION COLLATORS	51%
BINDING MACHINES	46%
ELECTRIC STAPLERS	46%
PLATEMAKING CAMERAS	44%
SADDLE STITCHERS	42%
SINGLE SHEET COLLATORS	35%
PADDING RACKS	33%
COLLATING CABINETS	33%

TABLE A19

# PRINTING PRESS, OFFSET DUPLICATOR, AND BINDERY PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
ELECTROSTATIC COPIERS/PLATEMAKERS	84%
BINDING MACHINES	75%
ELECTRIC STAPLERS	73%
PLATEMAKING CAMERAS	71%
MANUAL PAPER CUTTERS	66%
SINGLE HEAD DRILLS	64%
PUNCHING MACHINES	60%
SADDLE STITCHERS	60%
STATION COLLATORS	58%
SIDE STITCHERS	53%
COLLATING CABINETS	49%
JOGGERS	47%
SINGLE SHEET COLLATORS	40%
POWERED PAPER CUTTERS	33%
PADDING RACKS	33%

# PRINTING PRESS AND BINDERY TRAINERS EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
DQ0111EA1	05110
ELECTROSTATIC COPIERS/PLATEMAKERS	71%
PUNCHING MACHINES	71%
SINGLE HEAD DRILLS	71%
BINDING MACHINES	57%
PLATEMAKING CAMERAS	57%
STATION COLLATORS	57%
COLLATING CABINETS	43%
ELECTRIC STAPLERS	43%
JOGGERS	43%
MANUAL PAPER CUTTERS	43%
PADDING RACKS	43%
ROTARY COLLATING TABLES	43%
SADDLE STITCHERS	43%
SIDE STITCHERS	43%
SINGLE SHEET COLLATORS	43%
SORTERS	43%

# PRINTING PRESS PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS US ING
ELECTRIC STAPLERS	54%
MANUAL PAPER CUTTERS	46%
ELECTROSTATIC COPIERS/PLATEMAKERS	39%
PLATEMAKING CAMERAS	39%
COLLATING CABINETS	39%
SINGLE HEAD DRILLS	39%
SINGLE SHEET COLLATORS	39%
PUNCHING MACHINES	31%

# BINDERY PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

	PERCENT MEMBERS
EQUIPMENT	USING
BINDING MACHINES	70%
ELECTRIC STAPLERS	61%
MULTIPLE HEAD DRILLS	44%
SADDLE STITCHERS	44%
STATION COLLATORS	44%
POWERED PAPER CUTTERS	39%
PUNCHING MACHINES	39%
SIDE STITCHERS	39%
SINGLE HEAD DRILLS	39%
JOGGERS	35%
MANUAL PAPER CUTTERS	35%
ELECTROSTATIC COPIERS/PLATEMAKERS	30%
COLLATING CABINETS	30%
SINGLE SHEET COLLATORS	30%

## PRODUCTION CONTROL PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

(NO EQUIPMENT USED BY AT LEAST 30 PERCENT)

#### TABLE A24

## MICROGRAPHICS PERSONNEL EQUIPMENT USED BY 30 PERCENT OR MORE OF MEMBERS (PERCENT MEMBERS RESPONDING)

EQUIPMENT	PERCENT MEMBERS USING
ROTARY MICROGRAPHIC CAMERAS	69%
AUTOMATIC FILM PROCESSORS	62%
PLANETARY MICROGRAPHIC CAMERAS	62%
STEP AND REPEAT CAMERAS	54%
COMPUTER OUTPUT MICROFORM DEVICES	46%
OZALID COPIERS	31%
TYPEWRITERS	31%

APPENDIX B

#### Job Type Descriptions

Listed below are brief descriptions of the job types identified in the Reprographics career ladder structure. Generally, each cluster has an area or areas of Reprographics concentration. Job types within these clusters mainly differ according to the emphasis placed upon the other various Reprographics functions. The Supervisory cluster job types differed in the areas of supervisory concentration. The Line and Halftone, and Layout and Stripping Personnel cluster emphasized the areas depicted in the title, with the job types varying in the other functions they perform. Most other clusters had job types differing for similar reasons. However, the Bindery Personnel cluster is an exception with the job types differing between the workers and the technician-supervisors. For additional information, the tables in Appendix B reveal various duty, background, and job satisfaction data for all of the job types identified. Appendix B also contains a listing of representative tasks for these job types.

#### I. Supervisors Cluster

Two job types were identified in this cluster: <u>Higher Managers</u> and <u>Copy Managers</u>. Brief descriptions of each job type are presented below. For further information, reference Tables B1, B3, B5, B7, and B8. Tables B9 and B10 give representative tasks for these job types respectively.

Ia. <u>HIGHER MANAGERS</u> (GRP058). The 50 members of this group are almost solely concerned with the high level control and direction of their organizations. Interpreting policies and determining work priorities are typical functions of this job type. Eighty-one percent of the job time of these individuals was spent in supervisory areas, 11 percent in administrative areas, and only eight percent in technical areas. Some of the common tasks performed by these individuals are:

counsel personnel
schedule leaves or passes
determine most economical means of reproduction
prepare APRs
analyze workload requirements
calculate value of equipment

None of these incumbents were in their first enlistment, with the group having the highest average time in service of any group, at 209 months. Eighty-six percent of this group reported supervising other personnel. On the basis of job difficulty ratings, this group had the second hardest job of any job type with a Job Difficulty Index (JDI) of 17.4 Common job titles of these members include copier manager, NCOIC duplicating center, production controller, and reproduction manager. Sixty-two percent of this group reported using no equipment in their present job.

iob satisfaction for this group was the highest of any job type, with 90 percent of the incumbents finding their job interesting, 94 percent perceiving good utilization of their talents, and 92 percent perceiving good utilization of their training. Only 66 percent of these personnel plan to reenlist, with 24 percent planning to retire.

Ib. <u>COPY MANAGERS</u> (GRP050). This group of 18 concentrates on supervisory duties, with 30 percent of their job time spent in the copy management area. Fourteen percent of their job time is also spent in the area of administrative functions. Members of this group performed an average of 46 tasks. Some of the typical tasks of this job type are:

advise users on copying procedures establish controls for use of copiers maintain records of copier monitors conduct orientation classes for copier monitors maintain status boards, graphs, or charts

Fifty percent of these incumbents indicated that they supervise other personnel. All members of this group were male. These individuals averaged 159 months in service (TAFMS). Copier manager was the most common job title listed by these respondents. Sixty-one percent of this group reported using no equipment in their present job. Half of this group listed SAC as their major command.

Eighty-nine percent of the group found their job interesting and 94 percent felt their job utilized both their talents and their training. Only 66 percent indicated plans to reenlist, with 17 percent planning to retire.

#### II. Line and Halftone, and Layout and Stripping Personnel Cluster

The two job types identified in this cluster were the Line and Halftone, Bindery, OD, and Layout and Stripping Workers and the Line and Halftone, and Layout and Stripping Workers. Differences in these groups centered mainly in the areas of the functional emphasis of the job groups, as the job titles indicate. Brief descriptions of these groups follow, and Tables B1, B3, B5, B7, and B8 give further information, with Tables B11 and B12 providing representative tasks for the job types.

IIa. LINE AND HALFTONE, BINDERY, OD, AND LAYOUT AND STRIPPING WORKERS (GRP075). Comprised of 12 individuals, this group is centered in the functional area of photolithography mainly, with bindery and duplicating functions coming next. Twenty-four percent of their job time is spent in the area of preparing line or halftone negatives and positives. Performing an average of 142 tasks, some of the common tasks performed by these incumbents are:

operate collators inspect negatives set camera exposure times determine job specifications for preparing negatives/positives hand marry sets set OD counters

Fifty-eight percent of these individuals reported a 5-skill level DAFSC. Forty-one percent of the group were in their first enlistment. Incumbents in SAC constituted 67 percent of this group. Seventy-five percent of the respondents in this group indicated rotating among the various organizational

functions. Some common job titles listed by these personnel were bindery worker, camera operator, duplicator operator, platemaker, and stripper (film assembler). With a Job Difficulty Index (JDI) of 17.0, this is one of the harder jobs in the career ladder.

Only 50 percent of this job type found their job interesting, though 75 percent felt both their talents and training were well utilized. Reenlistment intentions were low with 50 percent planning to and 50 percent planning not to reenlist.

IIb. LINE AND HALFTONE, AND LAYOUT AND STRIPPING WORKERS (GRP085). The 14 members of this group are almost exclusively concerned with photolithography functions, with 93 percent of the individuals reporting this as their main functional area. Fifty-one percent of their job time was reported as being spent preparing line and halftone negatives and positives, with an additional 27 percent of their job time being spent performing layout and stripping functions. These individuals perform an average of 67 tasks some of which are:

flash film for shadow dots adjust copyboards adjust lensboard set camera exposure times remove or replace camera lens caps

Fourteen percent of the members of this group reported having completed the Reprographics course at Ft. Belvoir. All of these individuals were located within the CONUS. Eighty-six percent of these respondents held either a 5- or 7-skill level DAFSC. Some of the common job titles of these individuals were camera operator, platemaker, and stripper (film assembler). Automatic film processors, contact printers, developing sinks, and flip top platemakers are common equipment used by these respondents.

Seventy-nine percent of this group found their job interesting, and 93 percent felt their training was well utilized. However, 29 percent of these individuals reported plans not to reenlist (excluding retirees).

#### III. Offset Duplicator (OD) and Printing Press (PP) Personnel Cluster

This cluster has two job types; OD, PP, and Bindery Workers and OD and PP Workers. The main differentiating factor between these groups is the higher emphasis the first group places on bindery functions as compared to the second group. Tables B1, B3, B5, B7, and B8 provide more information about these groups. Also, Tables B13 and B14 give listings of the representative tasks performed by members of these groups respectively.

IIIa. OFFSET DUPLICATOR, PRINTING PRESS, AND BINDERY WORKERS (GRP129). Comprised of 34 individuals, the major functions of this job type are the operation and maintenance of offset duplicators, and the performance of printing press functions, with bindery functions falling behind these two. As could be expected, printing and duplicating were the functional areas most commonly reported. These individuals performed an average of 87 tasks. Some common tasks for this group are:

mix OD fountain solutions replenish OD ink fountains mount OD masters on master cylinders adjust OD ink flow moisten duplicating dampening rollers

Fifty-nine percent of this group reported a 5-skill level DAFSC, and 47 percent of the group indicated being in their first enlistment. The average time in service (TAFMS) for the group was 69 months. Typical job titles for personnel in this group include bindery worker, camera operator, duplicator operator, platemaker, and press operator. Sixty-two percent of these incumbents indicated that they rotate among the organizational functions.

Seventy-three percent of the members of this group reported an interesting job. Eighty-two percent reported at least fair utilization of their talents, and eighty-eight percent reported at least fair utilization of their training. Only 59 percent indicated intentions to reenlist, with 38 percent planning not to reenlist.

IIIb. OFFSET DUPLICATOR AND PRINTING PRESS WORKERS (GRP142). The 6 members of this job type operate and maintain offset duplicators and perform printing press functions. Forty-six percent of their job time is spent in the offset suplicator area, and forty-one percent of their time is spent on printing press functions. Individuals in this group perform an average of 52 tasks. Some common tasks include:

mount OD masters on master cylinders replenish OD ink fountains set OD counters adjust image on Offset Duplicators (OD) prepare PP plates for mounting set PP counters

With 67 percent of these incumbents holding a 3-skill level DAFSC and members averaging only 33 months in service (TAFMS), this was one of the more junior job types identified. Eighty-three percent of these personnel were also in their first enlistment, and all members were stationed within the CONUS. Only 33 percent of these members indicated that they rotate among the various organizational functions. Sixty-seven percent reported completion of the Reprographics course at Ft. Belvoir, and 33 percent of the members of the job type were female.

Fifty percent of these personnel reported a group level of organization, and 50 percent also reported SAC as their major command. Common job titles for these personnel are duplicator operator and press operator.

Only 33 percent of this group found their job interesting, with an additional 50 percent finding it "so-so". Fifty percent also perceived poor utilization of their talents, and 50 percent plan not to reenlist even though they are not retiring. However, 83 percent felt their training was well utilized. Overall then, over half of this group found their job less than interesting, and over half of the respondents plan to separate from the Air Force. This could be a reflection of disappointment in the simplicity of their job, with a Job Difficulty Index (JDI) of only 8.5.

#### IV. Offset Duplicator Personnel Cluster

Two job types were identified in this cluster: Offset Duplicator (OD) Workers, and Limited Job OD Workers. Both of these groups spend most of their time on Offset Duplicator functions, but the OD Workers spend noticeable time in other areas; whereas, the Limited Job OD Workers have no other areas where they spend significant time. Tables B1, B3, B5, B7, and B8 provide more information about these groups. Representative tasks for these job types are provided in Tables B15 and B16 respectively.

IVa. OFFSET DUPLICATOR WORKERS (GRP158). The 75 individuals in this group typically operate and maintain offset duplicators, with bindery and electrostatic master functions performed to a much lesser degree. Sixty-two percent of their job time was spent in the operation and maintenance of offset duplicators and 60 percent of this group reported duplicating as their main functional area of work. Respondents in this job type performed an average of 55 tasks. Some of these common tasks were:

adjust OD ink flow mount OD masters on master cylinders set OD counters run masters through master converters mix OD fountain solutions

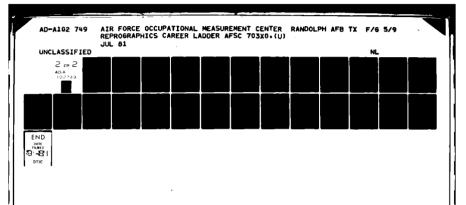
Seventy-six percent of these respondents held a 5-skill level at the time of the survey and rely four percent reported that they supervise other personnel. Twenty-five percent of the group were located overseas and 63 percent of the group were in their first enlistment. Sixty-one percent of these respondents reported that they rotate among the various organizational functions. Some of the common job titles reported by these people are duplicator operator and press operator.

Sixty percent of this group found their job interesting, and 73 percent felt their talents were well utilized. Eighty-one percent also felt their training was well utilized; however, only 40 percent of these incumbents reported plans not to reenlist.

IVb. LIMITED JOB OD WORKERS (GRP173). The 19 people in this group almost exclusively operate and maintain offset duplicators. This function absorbs 84 percent of their job time. Fifty-eight percent of this group reported duplicating as the major functional area of their work. The members of this group performed an average of only 33 tasks. Some typical tasks are:

adjust image on offset duplicators adjust OD ink flow set OD counters replenish OD ink fountains load OD feeder systems

None of these individuals reported supervising other personnel, with 68 percent of these incumbents reporting 5-skill level DAFSC. Only 21 percent indicate rotating among the various organizational functions. This was one of



the easier jobs in the career field, with a Job Difficulty Index (JDI) of 5.9. A common job title indicated by these personnel was press operator and 47 percent of the group reported a previous 713X0 Printing-Binding AFSC.

Only 37 percent of this group found their job interesting, with 37 percent finding the job dull. Sixty-three percent felt their talents were utilized not at all to very little. However, 68 percent of the group felt fair or better utilization of training. As could be expected from the above job satisfaction indicators, reenlistment intentions were low for this group. Only 42 percent plan to reenlist, with 58 percent planning not to reenlist.

#### VI. Offset Duplicator (OD) Technician-Supervisor Personnel Cluster

Two job types were identified in this cluster. They were the OD and Bindery Technician-Supervisors, and the OD Technician-Supervisors. The bindery functions performed by the former group distinguished these two groups. Tables B2, B4, B6, B7, and B8 provide more information about these groups. Tables B17 and B18 respectively provide representative tasks for these job types.

VIa. OD AND BINDERY TECHNICIAN-SUPERVISORS (GRP108). The 50 members of this group perform a combination supervisory and technical job mainly in the areas of OD and Bindery functions. Fifty-four percent of these incumbents indicated duplicating as their main functional area. This group had one of the broadest jobs in the career ladder with members performing an average of 150 tasks. These tasks include:

determine work priorities review printing requests maintain logs of jobs processed operate collators direct equipment maintenance

Seventy-four percent of this group indicated a 7-skill level DAFSC. None of the members of this group reported being in their first enlistment. Eighty-four percent report that they supervise other personnel. With an average time in service (TAFMS) of 176 months, this group was one of the more senior groups in the career ladder. They also had one of the harder jobs in the career ladder, with a Job Difficulty Index (JDI) of 19.3 Seventy-eight percent of these incumbents indicated rotation among the organizational functions. Typical job titles for these personnel include bindery worker, copier manager, duplicator operator, NCOIC duplicating center, reproduction manager, and supply manager. Ninety-four percent of these respondents reported the use of equipment in their present job. Forty-two percent of this group indicated assignments overseas, and 56 percent of these members were previously 713X2 Duplicating personnel.

Job satisfaction was high for this group with 80 percent finding their job interesting, and 86 percent feeling their talents were well utilized. Ninety percent felt their training was well utilized. Only 58 percent indicated reenlistment intentions; however, another 28 percent reported intentions to retire.

VIb. OFFSET DUPLICATOR TECHNICIAN-SUPERVISORS (GRP123). This job type, containing only 5 members, deals mainly with supervisory and OD functions. Sixty percent of these incumbents report duplicating as the major functional area of their job. As the representative task list (Table B18) reveals, these individuals operate and maintain offset duplicators as a major part of their job; they also supervise others and do much of the first-line managerial work. An average of 78 tasks was reported performed by this group. Common tasks were:

load OD feeder systems mix OD fountain solutions moisten duplicating dampening rollers replenish OD ink fountains set OD counters

Eighty percent of this group reported assignments overseas. Eighty percent were also 7-skill level personnel. All members reported supervising other incumbents, and all members were male. Eighty percent indicated rotation among organizational functions. Eighty percent of this group also indicated a previous 713X0 Printing-Binding AFSC.

Sixty percent of this group found their job interesting. Eighty percent felt their talents and training were well utilized and plan to reenlist. The one member who does not plan to reenlist is retiring.

#### 1X. Printing Press (PP) Personnel Cluster

Two job types were identified in this cluster. They were the PP and Bindery Workers, and the PP Workers. The bindery functions of the former distinguish these two groups. Tables B2, B4, B6, B7, and B8 provide further information on these job types. Tables B19 and B20 give representative tasks for these groups respectively.

IXa. PRINTING PRESS AND BINDERY WORKERS (GRP068). The six members forming this job type concentrate on printing press and bindery functions. Sixty-seven percent of these individuals report printing as their main functional area. They perform an average of 52 tasks. Some common tasks include:

operate collators operate cutters clean PP exteriors adjust PP vacuum or air flow staple paper

Thirty-three percent of the members of this group report rotation among organizational functions. Thirty-three percent of these respondents were also female. One-half of the group reported TAC as their major command and 67 percent were 5-skill level personnel. Some job titles indicated by these personnel are bindery worker, camera operator, platemaker, and press operator.

Eighty-three percent of this group found their job interesting and their talents and training utilized well; however, only 17 percent of this group indicated reenlistment intentions, with 33 percent planning not to reenlist, and 50 percent planning to retire.

IXb. PRINTING PRESS WORKERS (GRP086). The seven individuals comprising this group spend 73 percent of their time performing printing press functions. An additional 13 percent of their time was spent operating and maintaining offset duplicators. All of these workers reported printing as the main functional area of their work. This group performed an average of 80 tasks. Some typical tasks are:

load PP feeder systems print and examine PP proofsheets engage PP feed controls clean PP exteriors adjust PP water rollers

All members of this group were DAFSC 70350 specialists. Fifty-seven percent of these members reported rotating among the various organizational functions. The job title most commonly indicated by these specialists was that of press operator.

Seventy-one percent of this group felt their talents were well utilized. Fifty-seven percent found their job interesting, their training well utilized, and planned not to reenlist, with no personnel indicating retirement intentions.

#### X. Bindery Personnel Cluster

This cluster contained two job types: the Bindery Workers, and the Bindery Technician-Supervisors. The supervisory functions performed by the latter job type distinguished the two groups. Tables B2, B4, B6, B7, and B8 provide further information on these groups. Tables B21 and B22 list the representative tasks for these jobs respectively.

Xa. <u>BINDERY</u> <u>WORKERS</u> (<u>GRP037</u>). Consisting of 13 members, this group concentrates in the technical area of performing bindery functions (absorbing 87 percent of their job time). Seventy-seven percent of the group reported binding as their main functional area. Bindery workers perform an average of only 20 tasks. They are a very heterogeneous group with a core of only 12 tasks performed by over half of the group. Some common tasks include:

operate collators operate drills operate cutters collate paper by hand staple paper Thirty-nine percent of this group indicated assignment at an overseas location. No members of this group reported supervising other personnel, with 23 percent of the group members completing the Reprographics course at Ft. Belvoir. Sixty-nine percent of this group rotated among the organizational functions. With a Job Difficulty Index (JDI) of 5.2, this was one of the easiest jobs in the career ladder. Bindery worker was the most common job title indicated by these respondents.

As could be expected by the limited and narrow nature of their job, job satisfaction indicators were low for this group. Only 39 percent of group members found their job interesting and intend to reenlist. Forty-six percent found the job dull, and plan not to reenlist. Perceived utilization of training was higher, with 77 percent feeling their training was well utilized.

Xb. BINDERY TECHNICIAN-SUPERVISORS (GRP041). Comprised of 9 members, this group does a highly technical bindery job with supervisory functions being an additional large part of their work. Fifty-seven percent of the job time of these incumbents is directed toward bindery functions. Seventy-eight percent of the group members depict binding as their main functional area. These respondents report the performance of an average of 45 tasks. These tasks include:

operate cutters operate stitchers inspect sequencing of pages operate drills adjust drills

No members of this group were in their first enlistment, with an average time in service (TAFMS) for the group of 45 months. All members of this group were male and all members were 5- and 7-skill level personnel. Sixty-seven percent reported that they supervise others, and 56 percent report rotating among the various organizational functions. Bindery Worker was the most common job title reported by these incumbents.

Eighty-nine percent of this group found their job interesting. Perceived utilization of talents and training were both fairly high. Reenlistment intentions were high also, with 78 percent indicating intentions to reenlist.

TABLE B!

RELATIVE PERCENT TIME SPENT ON DUTIES BY JOB TYPES

	SUPERVISORS CLUSTER	1SORS	LINE AND HALPTONE, AND LAYOUT AND STRIPPING PERSONNEL CLUSTER	D LAYOUT AND LUSTER	OFFSET DUPLICATOR (OB) AND PRINTING PRESS (PP) PERSONNEL CLUSTER	R (0D) SS (PP) R	OFFSET DUPLICATOR	PLICATOR CLUSTER
	H1GHER MANAGERS (N=50)	COPY MANAGERS (N=18)	LINE AND HALFTONE, BINDERY, OD, AND LAYOUT AND STRIPPING WORKERS (N=12)	LINE AND HALFTONE, AND LAYOUT AND STRIPPING WORKERS (N=14)	9D, PP, AND BINDERY WORKERS (N=34)	00 AND PP WORKERS (N=6)	OD WORKERS (N=75)	LIMITED JOR JD WORKER: (N=19)
ORGANIZING AND PLANNING	20	16	2	-	~	7	-	નંદ
DIRECTING AND IMPLEMENTING	26	50	2	2		-		•-
EVALUATING AND INSPECTING	20	12	7	ю		40	~	,
TRAINING	œ	ď	-		람	-;•	÷c	
PERFORMING ADMINISTRATIVE								
AND SUPPLY FUNCTIONS	11	14	-	-	7	55	2	
PERFORMING COPY MANAGEMENT								
FUNCTIONS	۱,	30				٠,٤	_	
PERFORMING ELECTROSTATIC								
MASTER FUNCTIONS	7	₹¢	9	m	70	٠,7	14	æ
OPERATING AND MAINTAINING								
OFFSET DUPLICATORS	-	_	14	띿	35	94	62	3C 71
PERFORMING BINDERY FUNCTIONS	2	-	18	*	15	9	18	'n
PERFORMING PRINTING PRESS								
FUNCTIONS	-	*	ν.	*	31	5	44	s/r
PREPARING LINE OR HALFTONE						•		
NEGATIVES AND POSITIVES PERFORMING LAYOUT AND	-\x	7	24	5.1	2	-}¢	*	7
STRIPPING FINCTIONS	40	÷	c		+	÷	4	-
			C	/7	¢		ĸ	
PERFORMING PLATEROOM FUNCTIONS PERFORMING MICROGRAPHIC	4: V3	<b>⊰</b> ¢	9	6	*	v	*	÷
FUNCTIONS	2	<b>-</b> ×	S	ન્દ	નંદ	Pk.	ų	

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TABLE B2

RELATIVE PERCENT THE SPENT ON DUTIES BY JOB TYPES

	OFFSET DUPLICATOR (OB) TECHNICIAN- SUPERVISOR PERSONNEL CILISTER	FECHNICIAN- CLUSTER	PRINTING PRESS (PP) PERSONNEL CLUSTER	(PP) USTER	BINDERY PERSONNEL CLUSTER	ERSONNEL B
	OD AND BINDERY TECHNICIAN-SUPERVISORS (N=50)	OL TECHNICIAN- SUPERVISORS (N-5)	PP AND BINDERY WORKERS (N=6)	PP WORKERS (N=2)	BINDERY WORKERS (N=13)	BINDERY TECHNICIAN- SUPERVISORS (N=9)
A ORGANIZING AND PLANNING	12	14	.74	7.	2	01
B DIRECTING AND IMPLEMENTING	15	21		~1	÷¢	15
C EVALUATING AND INSPECTING	12	71	<b>-</b> t¢	-	7,6	<b>∞</b>
D TRAINING	4		'¢	-	÷'	m
E PERFORMING ADMINISTRATIVE AND SUPPLY						
FUNCTIONS	00	6	7	1	~	3
F PERFORMING COPY MANAGEMENT FUNCTIONS	7	~	76	*	÷.	*
S PERFORMING ELECTROSTATIC MASTER						
FUNCTIONS	10	6	7	3	- 2	<b>ન</b> ઃ
H OPERATING AND MAINTAINING OFFSET						
DUPLICATORS	17	77	တ	13	æ	ij¢
I PERFORMING BINDERY FUNCTIONS	13	^	31	6	87	57
J PERFORMING PRINTING PRESS FUNCTIONS		÷¢	949	7.3	-;≮	M
K PREPARING LINE OR HALFTONE NEGATIVES						
AND POSITIVES	ī	નું દ	÷ς	4¢	नी	-
L PERFORMING LAYOUT AND STRIPPING						
FUNCTIONS	*	÷¢	44	40	ંદ	⊀x
4 PERFORMING PLATEROOM FUNCTIONS	<b>ત્ર</b>	÷€	*;¢	44	-;*	*
N PERFORMING MICROGRAPHIC FUNCTIONS	40	⊀દ	⊰€	*	⊰¢	*

\* DENOTES LESS THAN ONE PERCENT

TABLE B3

BACKGROUND INFORMATION FOR JOB TYPES

			BACKGROUND INFORMATION FOR	INTERNATION OF THE PARTY OF THE				
B12	SUPERVISORS CLUSTER	S ~	LINE AND HALFTONE, AND LAYOUT AND STRIPPING PERSONNEL CLUSTER	ND LAYOUT AND	OFFSET DUPLICATOR (OD) AND PRINTING PRESS (PP) PERSONNEL CLUSTER	R (0D) SS (PP) R	OFFSET DUPLICATOR	LICATOR
	HIGHER MANAGERS	COPY MANAGERS	LINE AND HALFTONE, BINDERY, OD, AND LAYOUT AND STRIPPING WORKERS (GRP075)	LINE AND HALFTONE, AND LAYOUT AND STRIPPING WORKERS (GRPO85)	OD, PP, AND BINDERY WORKERS (GRP129)	OD AND PP WORKEKS (GRP142)	OD WORKERS (GRP158)	LIMITED JOB OD WOKKERS (GRP173)
NUMBER IN GROUP PERCENT OF SAMPLE PERCENT LOCATED OVERSEAS	50 10% 24%	18 4% 28%	12 2% 8%	3%	34 7%	08 12 08	157	<u> </u> 보호 <u>.</u> (
DAFSC DISTRIBUTION 70330 70330 70370 70370	0% 16% 70% 14%	0% 28% 67% 5%	17.5 5.834 8.84 8.84 8.84	\$4.50 \$4.50 \$0.00 \$4.50	% % % % % % % % % % % % % % % % % % %	67% 93% 93% 94%	60 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
AVERAGE GRADE AVERAGE THE IN CAREFR FIELD (NOWTHS TICE) AVERAGE THE IN SERVICE (HONTHS TAPHS) PERCENT IN FIRST ENLISTMENT PERCENT SUPERVISING	6.4 182 209 0% 86%	5.8 1137 1159 808	5.1 5.1 86 4.1% 33%	4.6 104 112 36%	3.9 5.7 6.43 8.83	3.0 3.3 3.3 0,7,0	5.9 6.3% 6.3%	, , , , , , , , , , , , , , , , , , ,
AVERAGE NUMBER OF TASKS PERFORMED AVERAGE TASK DIFFICULTY PER UNIT TIME SPENT (ATDPUTS) JOB DIFFICULTY INDEX (JDI)	94	46 5.5 13.2	4.6	67 4.9 12.7	81 4.2 12.2	54 1.± ∞ 1.00	55 4.2 9.0	
PERCENT COMPLETING REPROGRAPHICS COURSE AT FT RELVOIR PERCENT OF FEMALE TEMBERS PERCENT ROTATING AMONG ORGANIZATIO FUNCTIONS	2% 2% ONAL 68%	0% 0% 12.2	00 25% 75%	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12% 21% 62%	673 33 34 34 34 34 34 34 34 34 34 34 34 34	11% 28% 61%	岩泉 葛

TABLE B4

BACKGROUND INFORMATION FOR JOB TYPES

	OFFSET DUPLICATOR (OD) TECHNICIAN- SUPERVISOR PERSONNEL CLUSTER	CLUSTER	PRINTING PRESS (PP) PERSONNEL CLUSTER	ESS (PP) LUSTER	BINDERY	BINDERY PERSONNEL CLUSTER
	OD AND BINDERY TECHNICIAN-SUPERVISORS (GRP108)	OD TECHNICIAN- SUPERVISORS (GRP123)	PP AND BINDERY WORKERS (GRP068)	PP WORKERS (GRP086)	BINDERY WORKERS (GRP037)	BINDERY TECHNICIAN- SUPERVISORS (GRP041)
NUMBER IN GROUP PERCENT OF SAMPLE PERCENT LOCATED OVERSEAS	50 10% 42%	5 1% 80%	5 178 74.76	1 1 1 7 8 8 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 3% 39%	1 2 9 1 1 2 8
DAFSC DISTRIBUTION						:
70330	%0	%0	17%	%0	23%	<b>%</b> 0
70350	26%	20%	%19	100%	269	277
70370	74%	80%	16%	<b>%</b> 0	%8	2995
70390	%0	<b>%</b> 0	%0	%0	20	<b>%</b> 0
AVERAGE GRADE	5.9	5.8	7.0	3.9	3.9	5.6
AVERAGE TIME IN CAREER FIELD (MONTHS TICF)	147	149	3.7	5.2	67	128
AVERAGE TIME IN SERVICE (MONTHS TAFMS)	176	161	98	62	99	165
PERCENT IN FIRST ENLISTMENT	%0	20%	67%	57%	%69	%0
PERCENT SUPERVISING	<b>%</b> 78	100%	17%	767	<b>%</b> 0	67%
AVERAGE NUMBER OF TASKS PERFORMED AVERAGE TASKS DEFICITION DEPTITY THE CORMY	150	78	52	-:	20	4.5
1		6.4	4.3	4.1	4.1	8.4
JOB DIFFICULTY INDEX (JDI)	19.3	14.1	9.3	13.5	5.2	10.3
PERCENT COMPLETING REPROGRAPHICS COURSE						
AT FT BELVOIR	2%	20%	17%	14%	23%	<b>%</b>
PERCENT OF FEMALE MEMBERS PERCENT ROTATIONAL	<b>%</b> 7	<b>%</b> 0	33%	29%	36%	<b>%</b> 0
FUNCTIONS	78%	<b>%08</b>	33%	27.2	7.69	295

TABLE B5

JOB SATISFACTION AND RELATED DATA FOR JOB TYPES

	SUPERVISORS CLUSTER	JRS JR	LINE AND HALFTONE, AND LAYON STRIPPING PERSONNEL CLUSTER	AND LAYOUT AND CLUSTER	OFFSET DUPLICATOR (OD) AND PRINTING PRESS (PF PERSONNEL CLUSTER	R (OD) SS (PP) R	OFFSET DUPLICATOR PERSONNEL CLUSTER	ICATOR CLUSTER
	HIGHER MANAGERS (N=50)	COPY MANAGERS (N=18)	LINE AND HALFTONE, BINDERY, OD, AND LAYOUT AND STRIPPING WORKERS (N=12)	LINE AND HALFTONE, AND LAYOUT AND STRIPPING WORKERS (N=14)	OD, PP, AND BINDERY WORKERS (N=34)	OD AND PP WORKERS (N=6)	OD WORKERS (N=75)	LIMITED JOB OD WORKERS (N=19)
I FIND MY JOB: DULL SO-SO INTERESTING	% % % % % %	0% 11% 89%	17% 33% 50%	0% 21% 79%	18% 9% 73%	17% 50% 33%	16% 21% 60%	3 2 3 3 26 54 3 54 54
HY JOB UTILIZES HY TALENTS: NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	89 88 88 88	<b>%</b> 9	25 <b>%</b> 75 <b>%</b>	14% 86%	18% 82%	50% 50%	248 738	63. 87.8
MY JOB UTILIZES MY TRAINING: NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	88 928	<b>%</b> 9 <b>%</b> 96	25 <b>%</b> 75 <b>%</b>	74 93%	<b>ንቶ</b> አቶ 6 ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	178 838	174 818	32% 68%
REENLISTMENT INTENTIONS: WILL RETIRE PLAN NOT TO REENLIST PLAN TO REENLIST	24% 10% 66%	17% 17% 66%	<b>******</b> 0	6 22 7 24 7 24 7 24 7 24 7 24 7 24 7 24 7	<b>የተ</b> የተ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ	0% 20% 20%	888 838 834 834 834 834 834 834 834 834	5 8 8 4 8 4 8 4 8 4 8 8 8 8 8 8 8 8 8 8

NOTE: COLUMNS MAY NOT ADD UP TO 100% DUE TO "NO RESPONSE"

815

TABLE B6
JOB SATISFACTION AND RELATED DATA FOR JOB TYPES

BINDERY PERSONNEL CLUSTER	BINDERY TECHNICIAN- (ERS SUPERVISORS (N=9)	11% 0% 89%	11% 89%	22% 78%	11% 11%
BIN	BINDERY WORKERS (N=13)	46% 15% 39%	39% 54%	23%	15 <b>%</b> 4 <b>6%</b> 39 <b>%</b>
RESS (PP) CLUSTER	Y PP WORKERS (N=7)	14% 29% 57%	14% 71%	43 <b>4</b> 57 <b>4</b>	<b>888</b> <b>738</b> 843 843 843 843 843 843 843 843 843 843
PRINTING PRESS (PP PERSONNEL CLUSTER	PP AND BINDERY WORKERS (N=6)	17% 0% 83%	17% 83%	17% 83%	33 <b>%</b> 14 <b>%</b>
DD) TECHNICIAN- CLUSTER	OD TECHNICIAN- S SUPERVISORS (N=5)	20% 20% 90%	20% 80%	20% 80%	20% 80%
OFFSET DUPLICATOR (OD) TECHNICIAN- SUPERVISOR PERSONNEL CLUSTER	OD AND BINDERY TECHNICIAN-SUPERVISORS (N=50)	2% 16% 80%	14% 86%	10%	28% 24% 58%
		I FIND MY JOB: DULL SQ-SO INTERESTING	MY JOB UTILIZES MY TALENTS: NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	MY JOB UTILIZES MY TRAINING: NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER	REENLISTHENT INTENTIONS: WILL RETIRE PLAN NOT TO REENLIST PLAN TO REENLIST

NOTE: COLUMNS MAY NOT ADD UP TO 100% DUE TO "NO RESPONSE"

TABLE B7

PREVIOUS AFSCs HELD PRIOR TO AFSC 703X0 ACCORDING TO JOB TYPES

	PRE	VIOUS A	FSCs HE	LD
Top gypna	710110	71077	7.000	OTHER
JOB TYPES	<u>713X0</u>	713X1	713X2	OR NONE
HIGHER MANAGERS	36%	18%		18%
COPY MANAGERS	50%	6%	33%	11%
LINE AND HALFTONE, BINDERY, OD, AND LAYOUT				
AND STRIPPING WORKERS	25%	42%	25%	0%
LINE AND HALFTONE, AND LAYOUT AND STRIPPING				
WORKERS	43%	21%	7%	21%
OFFSET DUPLICATOR (OD), PRINTING PRESS (PP)				
AND BINDERY WORKERS	27%	9%	23%	41%
OD AND PP WORKERS	17%	0%	17%	66%
OD WORKERS	29%	3%		36%
LIMITED JOB OD WORKERS	47%	0%		42%
OD AND BINDERY TECHNICIAN-SUPERVISORS	30%	2%	56%	10%
OD TECHNICIAN-SUPERVISORS	80%	20%		0%
PP AND BINDERY WORKERS	33%	0%	0%	67%
PP WORKERS	29%	0%	14%	57%
BINDERY WORKERS	31%	8%	23%	38%
BINDERY TECHNICIAN-SUPERVISORS	44%	22%	22%	11%

NOTE: LINES MAY NOT ADD UP TO 100% DUE TO "NO RESPONSE"

TABLE B8

FUNCTIONAL AREA MAJORITY OF TIME SPENT ACCORDING TO JOB TYPES

			FUNCTIO	FUNCTIONAL AREA			} !
JOB TYPES	PRINTING	DUPLICATING	PHOTO- LITHOGRAPHY	BINDING	MICROGRAPHICS	OTHER	TOTAL
HIGHER MANAGERS COPY MANAGERS LINE AND HAIFTONE DINDERY OF AND	6% 11%	30% 22%	25 0%	% % % %	** ***	46% 55%	92% 100%
LINE AND MALETONE, BINDENI, OL, AND LAYOUT AND STRIPPING WORKERS TIME AND MAIETONE AND LAYOUT AND	88	17%	20%	17%	88	%0	100%
STRIPPING WORKERS	%0	%0	93%	%0	%0	7%	100%
(PP) AND BINDERY WORKERS	59%	38%	200	3°28	<b>%</b>	800	100%
OD WORKERS	35%	33% 60%	4 % 0 0		** •	2 % C	7001 866
LIMITED JOB OD WORKERS ON AND BINDERY TECHNICIAN-SUPERVISORS	37%	58% 56%	<b>%</b> %	%% 000	ಕೆ ೧	30%	95% 98%
OD TECHNICIAN-SUPERVISORS OD AND DINCED GROUPED	202	26.09 60.09	8 <b>3</b> 8 8	200	2 83 8 0 0 0	70% 70%	100%
FF AND BINDENS WOMNERS PP WORKERS	100%	** 0	4 <b>24</b> 0 0	4 % 20	4 34 0 0	% 0 0 0	100%
BINDERY WORKERS RINDERY TECHNICIAN-SUBERVISORS	23%		34 8 O C	77%	<b>34</b> %	<b>%</b> &	100%
DIRDERI IECIMICIAN-DOIENVIDORD	414	11/0	9	<b>4</b> 0/	<b>9</b>	2	100%

TE: LINES MAY NOT ADD UP TO 100% DUE TO "NO RESPONSE"

TABLE B9
TASKS PERFORMED BY HIGHER MANAGERS (GRP058)

TASKS	3	MEMBERS PERFORMING
B32	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	96
A27	SCHEDULE LEAVES OR PASSES	96
C90	PREPARE APRS	92
A4	DETERMINE REQUIREMENTS FOR SPACE, EQUIPMENT, PERSONNEL, OR SUPPLIES	92
B33	DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION	90
B44	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	90
<b>A</b> 5	DETERMINE WORK PRIORITIES	90
B60		88
B50	REVIEW PRINTING REQUESTS	88
	ANALYZE WORKLOAD REQUIREMENTS	86
C75	EVALUATE EQUIPMENT BEFORE PURCHASE OR RENTAL	86
<b>A</b> 3	CALCULATE VALUE OF EQUIPMENT	86
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	86
A22	PLAN WORK ASSIGNMENTS	82
A8	DEVELOP WORK METHODS OR PROCEDURES	82
C61	ACCOUNT FOR MATERIALS EXPENDED	78
B37	DIRECT QUALITY CONTROL PROGRAMS	78
A14	ESTABLISH PRODUCTION CONTROLS	78
A2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	78
A7	DEVELOP STANDARDS FOR PRINTED MATERIALS	76
C71	ENDORSE AIRMAN PERFORMANCE REPORTS (APR)	76
B35	DIRECT EQUIPMENT MAINTENANCE	74
B38	DIRECT UTILIZATION OF EQUIPMENT	74
E132	MAINTAIN LIST OF EQUIPMENT	74
RZQ	IMPLEMENT COST REDUCTION PROGRAMS	74

# TABLE B10 TASKS PERFORMED BY COPY MANAGERS (GRP050)

TASKS		PERCENT MEMBERS PERFORMING
F151	ADVISE USERS ON COPYING PROCEDURES	100
G157	ESTABLISH CONTROLS FOR USE OF COPIERS	94
F159	EVALUATE NEED FOR COPIERS OR TYPES OF COPIERS REQUESTED BY USERS	94
F161	MAINTAIN RECORDS OF COPIER MONITORS	94
F163 F162		
	REPORTS FORMS (AF FORM 893)	94
F152		83
B48	, , , , , , , , , , , , , , , , , , ,	83
B60	WRITE CORRESPONDENCE	78
	INVESTIGATE USAGE OF COPIERS ASSIGNED TO OTHER UNITS	78
	EVALUATE EQUIPMENT BEFORE PURCHASE OR RENTAL	78 78
F167		72
E148	MAKE ENTRIES ON REQUEST FOR PURCHASE FORMS (AF FORM 9)	72
A3	CALCULATE VALUE OF EQUIPMENT	72
B50		67
A11	, , , , , , , , , , , , , , , , , , ,	
	OPERATING PROCEDURES	67
A5	DETERMINE WORK PRIORITIES	67
B49	PREPARE REQUISITIONS FOR SUPPLIES OR EQUIPMENT	61
E133		56
B39	IMPLEMENT COST REDUCTION PROGRAMS	56
B33	DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION	56
E143	MAKE ENTRIES ON CUSTODIAN REQUEST/RECEIPT FORMS (AF FORM 601B)	56
A7	DEVELOP STANDARDS FOR PRINTED MATERIALS	56
A9	DRAFT BUDGET OR FINANCIAL REQUIREMENTS	56
C90	PREPARE APRS	56

TABLE B11

TASKS PERFORMED BY LINE AND HALFTONE, BINDERY, OFFSET DUPLICATOR (OD), AND LAYOUT AND STRIPPING WORKERS (GRP075)

TASKS		PERCENT MEMBERS PERFORMING
I261	OPERATE COLLATORS	100
1248	HAND MARRY SETS	100
L411	INSPECT NEGATIVES	100
K401	SET CAMERA EXPOSURE TIMES	100
K372	DETERMINE JOB SPECIFICATIONS FOR PREPARING NEGATIVES OR POSITIVES	100
M428	CLEAN GLASS ON PLATEMAKERS	100
M429	COMPUTE PLATEMAKER EXPOSURE TIMES	100
<b>I244</b>	CLEAN BINDERY EQUIPMENT	100
K353	ADJUST CAMERA LIGHTS	100
I284	STAPLE PAPER	92
I245	COLLATE PAPER BY HAND	92
K359	CENTER IMAGES ON GROUND GLASS	92
K384	PREPARE DEVELOPERS OR FIXERS	92
L426	TRIM NEGATIVES	92
K371	CUT FILM TO SIZE	92
K354	ADJUST COPYBOARDS	92
K355	ADJUST LENSBOARD	92
K400	SET CAMERA APERTURES	92
L406	CLEAN GLASS ON LIGHT TABLES	92
1242	ADJUST STITCHERS	92
1262	OPERATE CUTTERS	92
L413	OPAQUE OR MASK UNWANTED AREAS OF NEGATIVES OR POSITIVES	83
K369	COMPUTE COPYBOARD SETTINGS	83
K370	COMPUTE LENS SETTINGS	83
K364	CLEAN COPYBOARD GLASS	83
H229	SET OD COUNTERS	83
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	83
H205	MIX OD FOUNTAIN SOLUTIONS	83

#### TABLE B12

## TASKS PERFORMED BY LINE AND HALFTONE, AND LAYOUT AND STRIPPING WORKERS (GRP085)

TASKS	3	PERCENT MEMBERS PERFORMING
K376	FLASH FILM FOR SHADOW DOTS	100
K354	ADJUST COPYBOARDS	93
K355	ADJUST LENSBOARD	93
K401	SET CAMERA EXPOSURE TIMES	93
K391	REMOVE OR REPLACE CAMERA LENS CAPS	93
K364	CLEAN COPYBOARD GLASS	93
K353	ADJUST CAMERA LIGHTS	93
L404	ASSEMBLE FLATS	86
L414	POSITION AND TAPE NEGATIVES ON LAYOUT SHEETS	86
L413	OPAQUE OR MASK UNWANTED AREAS OF NEGATIVES OR POSITIVES	86
K400	SET CAMERA APERTURES	86
K369	COMPUTE COPYBOARD SETTINGS	86
K370	COMPUTE LENS SETTINGS	86
K357	ADJUST VACUUM ON CAMERA BACKS	86
L406	CLEAN GLASS ON LIGHT TABLES	86
K384	PREPARE DEVELOPERS OR FIXERS	86
K371	CUT FILM TO SIZE	86
K358	ATTACH SCREENS TO FILM VACUUM BACKS	86
K397	SELECT AND ATTACH LENS FILTERS	86
L409	CORRECT IMPERFECTIONS IN NEGATIVES	86
K362	CLEAN CAMERA EXTERIORS	86
L411	INSPECT NEGATIVES	79
L407	CLEAN OPAQUE BRUSHES	79
K372	DETERMINE JOB SPECIFICATIONS FOR PREPARING NEGATIVES OR POSITIVES	79
L415	POSITION TIC AND TRIM MARKS	79

TABLE B13

TASKS PERFORMED BY OFFSET DUPLICATOR (OD), PRINTING PRESS (PP),
AND BINDERY WORKERS (GRP129)

TASKS	3	PERCENT MEMBERS PERFORMING
H205	MIX OD FOUNTAIN SOLUTIONS	100
H226	REPLENISH OD INK FOUNTAINS	100
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	100
H195	ADJUST OD INK FLOW	100
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	97
H212	REMOVE OD MASTERS AND CLEAN BLANKETS	97
H228	RUN MASTERS THROUGH MASTER CONVERTERS	94
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	94
H197	ADJUST OD PILE HEIGHT CONTROLS	94
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	94
H229	SET OD COUNTERS	91
J311	CLEAN PP IMPRESSION CYLINDERS	91
J310	CLEAN PP EXTERIORS	91
J305	ADJUST PP VACUUM OR AIR FLOW	91
H201	CLEAN OD FEEDER ROLLERS	91
J340	REPLENISH PP INK FOUNTAINS	88
H190	ADJUST OD FEEDING UNIT BLOWERS	88
H191	ADJUST OD GUIDES OR CYLINDERS	85
H203	LOAD OD FEEDER SYSTEMS	82
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	82
J342	REPLENISH PP WATER FOUNTAINS	82
J309	ATTACH PP PLATES TO PLATE CYLINDERS	82
H204	LUBRICATE ODs	82
I261	OPERATE COLLATORS	79
I284	STAPLE PAPERS	76
1262	OPERATE CUTTERS	76
1263	OPERATE DRILLS	76

#### TABLE B14

### TASKS PERFORMED BY OFFSET DUPLICATOR AND PRINTING PRESS WORKERS (GRP142)

TASKS	3	MEMBERS PERFORMING
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	100
H226	REPLENISH OD INK FOUNTAINS	100
H229	SET OD COUNTERS	100
H1 <b>8</b> 9	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	100
J329	PREPARE PP PLATES FOR MOUNTING	100
H195	ADJUST OD INK FLOW	100
H197	ADJUST OD PILE HEIGHT CONTROLS	100
H230	SET OD MULTISHEET DETECTORS	100
H231	SET OD RECEIVING TRAY JOGGERS	100
H190	ADJUST OD FEEDING UNIT BLOWERS	100
H203	LOAD OD FEEDER SYSTEMS	83
H205	MIX OD FOUNTAIN SOLUTIONS	83
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	83
J348	SET PP COUNTERS	83
H212	REMOVE OD MASTERS AND CLEAN BLANKETS	83
J301	ADJUST PP PILE HEIGHT INDICATORS	83
J349	SET PP INK OR WATER CONTROLS	83
H196	ADJUST OD PAPER BUCKLES	83
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	83
J346	SET KEYS ON INK FOUNTAIN BLADES	83
H228	RUN MASTERS THROUGH MASTER CONVERTERS	67
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	67
J311	CLEAN PP IMPRESSION CYLINDERS	67
J323	MIX PP FOUNTAIN OR DAMPENING SOLUTIONS OTHER THAN INKS	67
J340	REPLENISH PP INK FOUNTAINS	67

TABLE B15
TASKS PERFORMED BY OFFSET DUPLICATOR WORKERS (GRP158)

TASKS		MEMBERS PERFORMING
H195	ADJUST OD INK FLOW	100
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	99
H229	SET OD COUNTERS	97
H228	RUN MASTERS THROUGH MASTER CONVERTERS	97
H205	MIX OD FOUNTAIN SOLUTIONS	97
H226	REPLENISH OD INK FOUNTAINS	97
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	97
H212	REMOVE OD MASTERS AND CLEAN BLANKETS	96
H197	ADJUST OD PILE HEIGHT CONTROLS	95
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	95
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	93
H190	ADJUST OD FEEDING UNIT BLOWERS	93
H203	LOAD OD FEEDER SYSTEMS	92
H191	ADJUST OD GUIDES OR CYLINDERS	92
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	88
H201	CLEAN OD FEEDER ROLLERS	88
H230	SET OD MULTISHEET DETECTORS	87
H198	ADJUST OD ROLLERS	85
H204	LUBRICATE ODs	83
H199	ADJUST PRESSURE BETWEEN MASTER CYLINDERS AND BLANKET CYLINDERS	83
	CLEAN ODS OTHER THAN AIR FILTERS OR FEEDER ROLLERS	80
H219	REMOVE OR REPLACE OD MINOR HARDWARE, SUCH AS NUTS, BOLTS, OR SCREWS	77
H214	REMOVE OR REPLACE OD DAMPENER COVERS	77
H196	ADJUST OD PAPER BUCKLES	77
H200	CLEAN OD AIR FILTERS	76
H221	PEMOUT OF PEDIACE OF POLIFES	75

TABLE B16

TASKS PERFORMED BY LIMITED JOB OFFSET DUPLICATOR WORKERS (GRP173)

TASKS		PERCENT MEMBERS PERFORMING
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	100
H195	ADJUST OD INK FLOW	100
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	100
H229	SET OD COUNTERS	95
H226	REPLENISH OD INK FOUNTAINS	95
	RUN MASTERS THROUGH MASTER CONVERTERS	95
H197	ADJUST OD PILE HEIGHT CONTROLS	95
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	89
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	89
H205	MIX OD FOUNTAIN SOLUTIONS	89
H214	REMOVE OR REPLACE OD DAMPENER COVERS	89
	ADJUST OD FEEDING UNIT BLOWERS	89
	LOAD OD FEEDER SYSTEMS	84
H227	REPLENISH ODS WITH FOUNTAIN SOLUTIONS OTHER THAN INK	84
H212	REMOVE OD MASTERS AND CLEAN BLANKETS	84
	ADJUST OD GUIDES OR CYLINDERS	84
	SET OD MULTISHEET DETECTORS	84
H201	CLEAN OD FEEDER ROLLERS	79
	CLEAN ODS OTHER THAN AIR FILTERS OR FEEDER ROLLERS	79
H231	SET OD RECEIVING TRAY JOGGERS	79
Н196	ADJUST OD PAPER BUCKLES	74
H198	ADJUST OD ROLLERS	74
H204	LUBRICATE ODs	58
H219	REMOVE OR REPLACE OD MINOR HARDWARE, SUCH AS NUTS, BOLTS, OR SCREWS	58
G176	ADJUST POSITION OF IMAGES ON ELECTROSTATIC MASTERS	53

TABLE B17

TASKS PERFORMED BY OFFSET DUPLICATOR AND BINDERY TECHNICIAN-SUPERVISORS (GRP108)

TASKS	}	MEMBERS PERFORMING
B33	DETERMINE MOST ECONOMICAL METHODS OF REPRODUCTION	98
A5	DETERMINE WORK PRIORITIES	96
B50	REVIEW PRINTING REQUESTS	94
E133	MAINTAIN LOGS OF JOBS PROCESSED	94
I261		92
B35	DIRECT EQUIPMENT MAINTENANCE	92
B51	SCHEDUE EQUIPMENT MAINTENANCE	92
	OPERATE CUTTERS	92
	COMPUTE AMOUNT OF ENLARGEMENT OR REDUCTION OF IMAGES	92
	ADJUST EMI EXPOSURE TIME	92
	ADJUST POSITION OF IMAGES ON ELECTROSTATIC MASTERS	92
	DETERMINE REQUIREMENTS FOR SPACE, EQUIPMENT, PERSONNEL, OR SUPPLIES	92
	CLEAN EMI GLASS, COPYBOARDS, MIRRORS, OR LENSES	92
8A	DEVELOP WORK METHODS OR PROCEDURES	90
	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	90
	ADJUST ELECTROSTATIC MASTER IMAGER (EMI) APERTURES	90
	STAPLE PAPER	90
	ADJUST OD INK FLOW	90
	OPERATE DRILLS	90
	ADJUST EMI TONER FEED	90
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	88
B52		88
	PREPARE OFFSET PLATES USING EMIS	88
	HAND MARRY SETS	88
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	88

TABLE B18

TASKS PERFORMED BY OFFSET DUPLICATOR TECHNICIAN-SUPERVISORS (GRP123)

TASKS		PERCENT MEMBERS PERFORMING
	**************************************	
H203	LOAD OD FEEDER SYSTEMS	100
H205	MIX OD FOUNTAIN SOLUTIONS	100
H206	MOISTEN DUPLICATING DAMPENING ROLLERS	100
H226	REPLENISH OD INK FOUNTAINS	100
H228	RUN MASTERS THROUGH MASTER CONVERTERS	100
H229	SET OD COUNTERS	100
H190	ADJUST OD FEEDING UMT BLOWERS	100
H195	ADJUST OD INK FLOW	100
H197	ADJUST OD PILE HEIGHT CONTROLS	100
H201	CLEAN OD FEEDER ROLLERS	100
H207	MOUNT OD BLANKETS ON BLANKET CYLINDERS	100
G170		100
H230	SET OD MULTISHEET DETECTORS	100
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	100
H193	ADJUST OD IMPRESSION CYLINDERS	100
H198	ADJUST OD ROLLERS	100
H204	LUBRICATE ODs	100
H208	MOUNT OD MASTERS ON MASTER CYLINDERS	100
B50	REVIEW PRINTING REQUESTS	80
E133	MAINTAIN LOGS OF JOBS PROCESSED	80
A5	DETERMINE WORK PRIORITIES	80
B52	SCHEDULE WORK ASSIGNMENTS	80
B35	DIRECT EQUIPMENT MAINTENANCE	80
C63	CALCULATE RATES OF PRODUCTION	80
C90	PREPARE APRS	80

TABLE B19

TASKS PERFORMED BY PRINTING PRESS AND BINDERY WORKERS (GRP068)

TASKS	3	PERCENT MEMBERS PERFORMING
1261	OPERATE COLLATORS	100
1262	OPERATE CUTTERS	100
J310	CLEAN PP EXTERIORS	100
J305	ADJUST PP VACUUM OR AIR FLOW	100
1284	STAPLE PAPER	100
1263	OPERATE DRILLS	100
I250	INSPECT SEQUENCING OF PAGES	83
J311	CLEAN PP IMPRESSION CYLINDERS	83
1244	CLEAN BINDERY EQUIPMENT	83
J320	LOAD PP FEEDER SYSTEMS	83
J309	ATTACH PP PLATES TO PLATE CYLINDERS	83
J301	ADJUST PP PILE HEIGHT INDICATORS	83
1245	COLLATE PAPER BY HAND	83
J298	ADJUST PP IMPRESSION CYLINDER PRESSURE	83
J329	PREPARE PP PLATES FOR MOUNTING	83
J307	ADJUST PP WATER ROLLERS	83
<b>J306</b>	ADJUST PP WATER FOUNTAIN STOPS	83
1248	HAND MARRY SETS	67
J313	CLEAN PP PLATE CLAMPS	67
J348	SET PP COUNTERS	67
H189	ADJUST IMAGE ON OFFSET DUPLICATORS (OD)	67
J345	SELECT PP INK	67
J308	ATTACH PP BLANKETS TO BLANKET CYLINDERS	67
J296	ADJUST PP GRIPPER FINGERS	67
.1299	ADJUST PP INK ROLLERS	67

TABLE B20
TASKS PERFORMED BY PRINTING PRESS WORKERS (GRP086)

TASKS	3	PERCENT MEMBERS PERFORMING
J320	LOAD PP FEEDER SYSTEMS	100
J330	PRINT AND EXAMINE PP PROOFSHEETS	100
J318	ENGAGE PP FEED CONTROLS	100
J310	CLEAN PP EXTERIORS	100
J307	ADJUST PP WATER ROLLERS	100
J316	COVER PP DAMPENING ROLLERS	100
J305	ADJUST PP VACUUM OR AIR FLOW	100
J306	ADJUST PP WATER FOUNTAIN STOPS	100
J337	REMOVE OR REPLACE PP WATER ROLLERS	100
J3 <b>0</b> 0	ADJUST PP PAPER CALIPERS	100
J301	_ · · · · · · · · · · · · · · · · · · ·	100
J346	SET KEYS ON INK FOUNTAIN BLADES	100
J298	ADJUST PP IMPRESSION CYLINDER PRESSURE	100
J299	ADJUST PP INK ROLLERS	100
J304	ADJUST PP SEPARATOR FINGERS	100
J334	REMOVE OR REPLACE PP INK OR WATER ROLLERS	100
J297	ADJUST PP HEAD STOPS	100
J338		100
J332	REMOVE OR REPLACE PP AIR HOSES	100
J323	MIX PP FOUNTAIN OR DAMPENING SOLUTIONS OTHER THAN INKS	86
J340	REPLENISH PP INK FOUNTAINS	86
J324	PERFORM PP PREOPERATIONAL INSPECTIONS	86
J311	CLEAN PP IMPRESSION CYLINDERS	86
J321	LUBRICATE PRINTING PRESSES	86
J342	REPLENISH PP WATER FOUNTAINS	86

TABLE B21
TASKS PERFORMED BY BINDERY WORKERS (GRP037)

TASKS	S	PERCENT MEMBERS PERFORMING
I261	OPERATE COLLATORS	100
1263	· · · · · · · · · · · · · · · · · · ·	100
1262		92
1245		92
	STAPLE PAPER	85
I250		77
1271		77
		69
1285		69
1248		62
1242		62
		54
		46
1251		46
	PACK PRINTED MATERIALS MANUALLY	38
I276		38
1264		38
1254		38
1236		38
		23
E133		23
I256		23
1241		23
1287	WRAP PRINTED MATERIALS MANUALLY	23
I275	PERFORM PADDING OPERATIONS	23

TABLE B22
TASKS PERFORMED BY BINDERY TECHNICIAN-SUPERVISORS (GRP041)

TASKS	<u> </u>	PERCENT MEMBERS PERFORMING
1262	OPERATE CUTTERS	89
1271	OPERATE STITCHERS	89
1250	INSPECT SEQUENCING OF PAGES	89
I280	REMOVE OR REPLACE CUTTING STICKS	89
I251	INSTALL DRILL BITS OR SPINDLES	89
	OPERATE DRILLS	78
I236	ADJUST DRILLS	78
1234	ADJUST CUTTER CLAMP PRESSURE	78
B32	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	78
	HAND MARRY SETS	67
1245	COLLATE PAPER BY HAND	67
<b>A</b> 5	DETERMINE WORK PRIORITIES	67
1285	TRIM PAPER	67
B35	DIRECT EQUIPMENT MAINTENANCE	67
		67
1242	ADJUST STITCHERS	67
1284	STAPLE PAPER	67
1282	SELECT WIRE AND LOAD SPOOLS	67
I249	INSPECT CUTTERS FOR ACCURACY	67
I281	REMOVE OR REPLACE STITCHER PARTS	67
I274	PACK PRINTED MATERIALS MANUALLY	56
A22	PLAN WORK ASSIGNMENTS	56
I261	OPERATE COLLATORS	56
C <b>65</b>	EDIT COMPLETED WORK FOR COMPLIANCE WITH WORK REQUESTS	56
1279	REMOVE OR REPLACE CUTTING BLADES	56
B50	REVIEW PRINTING REQUESTS	56
A8	DEVELOP WORK METHODS OR PROCEDURES	56

